



REN-00-118 seq listing ST25.txt
SEQUENCE LISTING

<110> Ruezinsky, Diane
<120> Novel Plant Promoters for Use in Early Seed Development
<130> REN-00-118
<150> US 60/458,828
<151> 2003-03-28
<160> 17
<170> PatentIn version 3.1

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| aataaatgat | caaattctata | tttctataca | agagttaatt | cacaaaaatt | tggtgtgaaa | 360 |
| caaactcttt | ctatatcttct | atacaagagt | taacatatct | ctatataagt | tattgttaaag | 420 |
| atcaaaatat | gaaaatttatg | gtataaatgc | atagacacat | atatacgtgc | cctattaaaa | 480 |
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| taaacataaa | cgccaatcgc | aactttcttg | tctttcaatg | ggagagaaaag | gtttgaagcg | 780 |
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| tggttggtgc | cagagatgaa | cagagggaag | atgaaatcta | cgcgccactt | ttggaaccca | 180 |
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| gattttcgac | gttggtgtgg | tttgggatca | tagagcgggtg | aatgacagag | agacacgtgg | 420 |
| cgaaagttac | acgtgcgcca | gttggtttga | tgagccgacg | agcaaaacgg | agagatgggt | 480 |
| tcacgtgacc | ttgcgcgga | aacgttacca | gtagaaaatg | cggttgcgcc | attttttgaa | 540 |
| gtgactttct | taatacgtac | gaggtgtgtc | tcctcgtgga | tttgtgctgt | tatatgtata | 600 |
| taaatggaaa | atatattaga | tgagagtaat | gggatttcac | ttgggggtcat | gtgacatgag | 660 |
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| aagtatcatg | ctgaatatac | tatataatct | atttataaaa | aaaatagaac | gaaagaaaaa | 780 |
| gtatcatgct | gtcaaaaaga | aaaaaaatat | catattttta | tagagaaaaa | actcgaaaaa | 840 |
| tatctgttta | atatctatag | ttgtttgaat | aatatctaaa | ttaattttat | gtttttaaat | 900 |
| gcttttttaa | ttcaaacatt | caaattcatg | attattatat | tttaacggat | gttctaactg | 960 |
| tggttgaaat | ttaactcatg | atattcacga | aatgtataat | ctattttcta | aagttttaca | 1020 |
| atatattagt | gtaattcta | gggtaaatgt | ggattgattc | tcttcataaa | tctaagttcg | 1080 |
| gaatcccccc | ttctttccta | attaatccaa | atttattaag | atagtcaatc | ccctctttgt | 1140 |
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| ttttttaaat | tttttattat | aaaataattt | tttgcataaa | attgttttta | agataaaaatt | 1440 |
| ttgacataac | caagtattat | tttccgccac | gaattgagtc | tacgagagat | gtcctgtctt | 1500 |
| taaacctcgt | aaagttttgg | tcttacccaa | ccaataccc | acaaaggtaa | acgaccatac | 1560 |
| cggttaataa | tattctaacc | ggtttataag | ttacataaa | tcatttacta | atccgcgtgt | 1620 |
| aattaagttt | tatgaaatgt | ggttattttg | taggtcacgt | gaaatttatt | aatttttttag | 1680 |
| tacttgtttt | tcttttttgg | gttcaactag | ttactttttt | cctttgacat | caaaattatt | 1740 |
| gtagacgagt | ggtccatata | tagatgggtga | aatgaaatga | atattgagta | ataaataaat | 1800 |
| atagaaagtg | aacaaaaaaa | attagtggaa | aaggtaactg | gaaagaaaag | gcttattggc | 1860 |
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| ctctctttta | aaatggtaaa | ctggtaaaga | taggagactc | aatttctagt | tcatcaaaac | 1980 |
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| ctgtctttta | acctcgtaaa | gttttgggtc | taccaaccc | aatacccaca | aaggtaaacg | 240 |
| accataccgg | ttaataatat | tctaaccggt | ttataagttt | acataaatca | tttactaatc | 300 |
| cgcgtgtaat | taagttttat | gaaatgtggt | tattttgtag | gtcacgtgaa | atttattaat | 360 |
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| aataaatata | gaaagtgaac | aaaaaaaatt | agtggaaaag | gtaactggaa | agaaaaggct | 540 |
| tattggcttg | gcaagattcc | ataagtttat | ttcaccaaaa | aggaaagagt | acttggcctt | 600 |
| gctctctctc | tcttttaaaa | tggtaaaactg | gtaaagatag | gagactcaat | ttctagttca | 660 |
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| gagggaaaaa | aaaatattat | tgaattgtag | agcgtttttg | ttaaataaaa | atagaggact | 240 |
| aaagcttctt | ttttatttta | ttttattatt | gtaatatatt | catcaaaaga | aaagtgaaag | 300 |
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| caccgtgggg | ctataatttt | tagaaaaaat | caaatgtaa | tatacttaat | tgattaacat | 840 |
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| gtttttatta | gtataggcaa | taatgttaac | ttttacgatc | ttttttgtat | taaagttaat | 960 |
| aattttatat | aagtacaata | aaaaaactaa | tgctgataaa | atattaaaat | aagattttaa | 1020 |
| ccgtgttatt | acttttggtt | gatgatatta | taaatatgta | ttaatatcga | tccaaacccg | 1080 |
| tcccaccata | taactctcat | caaatattac | tttttataag | tttaaataatt | attaatgttt | 1140 |
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| tttattacag | caaattaaaa | ccaaaaatta | ataaatactt | aagagaaatt | ttaggaatga | 1920 |
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| taaatatttg | attttaaatt | tctgcataaa | ttcagtggca | ttgagtcgta | aataagtcca | 2040 |
| agtccaagat | ttatttggtta | aaatggctgc | aaaaatgtat | atatagattt | gcctcataat | 2100 |
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| tggaatatata | ctttacttta | catatatcca | ttatggaagt | ttgtttactt | acaaaaaata | 2340 |
| tgaatccctt | tgggaaatgt | ttttacacaa | catattat | tccccacata | aatgcacatt | 2400 |
| atgaatggaa | ataaaaagta | aattttatat | tatttttctt | atcaattaag | taatttccaa | 2460 |
| atttgaattt | aaagcatgat | ttatatggaa | agccaataac | tttaacaaaa | acaatatattg | 2520 |
| gaaaaataat | atttcattaa | ttaagattat | cttcttcac | tataaaaaga | gttttaattg | 2580 |
| catagaatca | ttcacttcat | aaatat | tagagcagtcaca | tttgaaatct | ctcctctctt | 2640 |
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| aaccaaatac | taacgtcaac | aaaaaaaaatc | tcaaaaccaa | aaactaaaat | cttaaaacca | 3420 |
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| cctaaacttg | catatgactc | gttttggtgt | attttactaa | ttttcaacta | aatttgtcta | 3540 |
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| gaaatttcta | taactataac | tagtaataaa | gtagatgaga | acaaaactta | aatgctatgg | 4140 |
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| aagtactggt | cagtgactca | tcgtttttcg | agcctcagag | attatcacao | gaagaagaat | 4380 |
| ccagagtccg | ccgggaaaaa | aaaaaaaaaa | aacaataaga | agattacaaa | aacaaagaat | 4440 |
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| gggaagagag | gggacctcaa | ggtaacat | ttt | tggtcaagtt | taagcttaga | agaacttgtc | 6300 | |
| aaccttatgt | ggacttttga | aagggatagt | gtgagataat | gaaacttttag | tttttggttt | | 6360 | |
| tttggttaaga | tagtacttac | ttaggtccgt | gacctgtaat | atcaaacc | ctatagtgtg | | 6420 | |
| gttaggata | acttttcttt | ctgacagtag | taggttcagg | atcttgtgtt | gtacaaattg | | 6480 | |
| aatgatcctt | ctgatgtctt | cataactaat | gatccttctg | tttctaaact | tcataaatgt | | 6540 | |
| tacacctttt | tggttaatat | atatttcta | at | gatgtaaa | agt | tacttcgcaa | atcttggatt | 6600 |
| tcttagtttc | ataatccggt | aaagcagaag | aacttcaata | agttccttaa | acttgttttt | | 6660 | |
| tcagatatgg | taatatgggt | ggaaacatga | ctttgaaacg | tttatataga | atcctttcca | | 6720 | |
| acattttaat | ctaatacaga | aaaggcaaaa | tatctaattg | gtgagaatcc | acagcaaaat | | 6780 | |
| gagaaaccta | caagggttag | tcacagacag | ctaaaaacca | aaccaaatta | aagaaaaaag | | 6840 | |
| cgccaaagtt | tacgaaggaa | acttaaaagg | cattgacttc | aatatctcaa | cacagctctg | | 6900 | |
| acttttatca | accttgtcct | tgtcttcctt | aaccttgtca | ccggagtttc | gaagcagagc | | 6960 | |
| ttcaatgatt | tctttaaaag | gtataatctc | ttctttctct | ttctctttct | tcttctttct | | 7020 | |
| tccatcttct | ttccatttcc | caccacccca | ttcgtacgac | ggctccatcc | acggcggcaa | | 7080 | |
| cactctcctc | gctgctgctt | caccggcgac | tggtgatgtg | gaacctaat | tcttgtccga | | 7140 | |
| aaccctagtt | tcaatctctt | ttggtggatt | caatctcgca | tcgtcagact | ctggtgaagt | | 7200 | |
| gggaacagaa | accattacga | ttccttcttc | cggattcacg | ggaggagata | aatgccaatc | | 7260 | |
| ttctaaaatc | tctgaactct | ctgtatctga | acgtttctcc | attctaaaaa | gcttcggaat | | 7320 | |
| tcgaaatcgg | cgaaactggt | aaaaagggaag | agactttctg | cttttctggt | tgatttgaca | | 7380 | |
| caattcagta | aacttgttta | gtatcggacc | tttttgggct | ttatgagctc | taaaattaaa | | 7440 | |
| atgccttatg | gactgttttg | atttgaaaga | ttagagacaa | ttcagagaa | ttgtttattg | | 7500 | |
| ttggaccttt | ttgggcttta | aaggaaaata | tggttatgggc | tttaacggaa | tatactttat | | 7560 | |
| gggaaagatt | aaagacaatc | cagagcattt | gtttgatatt | ggaccttttt | gggcttttta | | 7620 | |
| gttgatctt | ttggacccaa | ttcagatttg | ttttataatt | tgggcattca | cttcattcac | | 7680 | |
| ttaatgatat | tgattatttt | tttggttaagt | acagatttat | catttttttt | tctcagattt | | 7740 | |
| atcattttta | atgactcttg | aaatcttgta | cccaaatttt | tttaatagaa | tcttaaaata | | 7800 | |
| catgacctta | tatcagtatt | agattttaaat | tttctttgaa | aagttgagaa | accaatgacg | | 7860 | |
| gtattaatct | attttgaaaa | cacatggatt | tttttctata | tatttatata | tataattcat | | 7920 | |
| tgacgggtatt | atataatat | atataatagg | taatttgatt | cattcattca | tttgaagtat | | 7980 | |
| gataaaaaaa | agttgataca | cccaaattac | actaattaat | atcatcaata | cacaacacat | | 8040 | |
| ataataaata | aatatagaaa | agattttacgc | tttcaaaaac | gagaaccata | ttcactatta | | 8100 | |
| ttatttttct | tcaaaataaa | tctcattaga | gattgtcatt | tttgccatc | atattcatat | | 8160 | |
| attggatgaa | actccaaagt | tatctaattct | tgacaatgat | actagatatc | ctctctagga | | 8220 | |
| gtatgaatga | tgatgtgatt | tcatgagaag | agagaaaaata | aaaatcaata | caaagatttg | | 8280 | |

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| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-------|
| tttctggact | agtttgagat | aattgagatc | gactcatcac | atttcatatc | agaatggatt | 8340 |
| gcaaataaat | atctatttta | ttaattagtt | aatgataatt | aatagatagg | aaaagaaaat | 8400 |
| tttaaattca | agaactacaa | ggataataac | acatgcattt | taatttatcg | caagggtgtc | 8460 |
| tttggacgca | tcggcccaat | cccttccggt | tctgtaggca | tagagcatta | caattgccag | 8520 |
| caccacaatc | tatttcgggt | aaagcctcct | cacaacgttg | ttgttgttgt | tgcccttcaa | 8580 |
| tttcattcac | catcatccct | acaaaaaaat | ttgtttcaat | agcataaaat | atcaattata | 8640 |
| ttttttttaa | acataaaata | catgatttta | taatagatta | agagcatgct | aaatatataa | 8700 |
| aaagaaacct | agaataagaa | tgatgaagaa | agcagaaatg | atggatttag | tcatttttgt | 8760 |
| gtgataattg | gagtttctga | attacaatta | taatgacaat | agttgtagtg | tacactgaaa | 8820 |
| tatcacaaac | aagattatat | atatatatat | atatatatat | atatataata | aagatatatt | 8880 |
| tttaciaaatt | tgattgatga | attttggtag | gtaaattatt | taaaaatctt | gtcatctata | 8940 |
| gttaataatc | tctatatctc | ttttttaaaa | acaaatccaa | tttttccta | acaattgata | 9000 |
| ttctagtgtt | tcctcaaatt | aaaaattcat | gatttcaata | aaatataatc | attactaaaa | 9060 |
| tatatcttac | ttacttagca | aagtaataaa | atataatcat | tactaaaata | tatcttaaaa | 9120 |
| attctgcagt | tactgctctc | tgagagtttc | gattctgttt | tcttaccgta | atctttcttc | 9180 |
| aattgttggt | aacttgctat | tactaatatt | ttttgtttac | gactttgaga | ctcttcacat | 9240 |
| aaagccttag | tgattttctg | atgaagtaat | cttatgcata | tattcatgag | aagacactac | 9300 |
| catattcata | aattttaaca | aaagctcata | tgctcaagtt | ttcatttaaa | gacctggtgg | 9360 |
| ctaattatac | ctttcattta | agtgatgcaa | tgatcgataa | aataattgta | acagaattcc | 9420 |
| ttcacaaacg | ggtaaacaat | acaaaggatt | agccatcttc | aataaagcac | aaagaggatt | 9480 |
| gaaaaagtgg | acaagtaaaa | ccaatgatga | aagggtctct | tgggtcaaaa | atgtacataa | 9540 |
| tttataactg | aaaaaaagaa | gaaaatttga | tggaagaaac | gtgtggaaca | ttaggagaaa | 9600 |
| gaaagagagg | gatataaata | acccaaattt | agaagattta | aaatacccg | aaatatgtga | 9660 |
| atctgttttg | attcggctgt | tacatatatt | gagatgatag | gcatgtgtgt | gaagctcaag | 9720 |
| agttgttatg | tgggagaagc | taaggtaagt | tttaggatga | aaccgatgat | gagtccgatg | 9780 |
| agtccaacca | tagctgccaa | cttcaaggat | agcccatttc | cgctgttcct | ctggtttctc | 9840 |
| cgcctcctta | ccgtttcctg | caatgtcgtt | caaaaacatt | ttaggcagta | tcctttgtta | 9900 |
| ttaagcactg | ttatgttcac | atgattttgt | ctgaatggta | atatgattgc | aagcattaac | 9960 |
| caatgctaaa | ctatcaagga | aaagggtcat | ggaagcgta | caattcatgt | tgcagctgtt | 10020 |
| gtgtttgctt | aacggctgca | tctcgctctt | ccttcagccg | ctgtatagtc | tgttcataca | 10080 |
| tattgatggt | ataaacgtcc | agaaagagga | ttaaaacaag | acacgaatta | atctttctta | 10140 |
| aattatgata | tgaatgtggc | cacttgtgag | gttctgtgag | atacatttgt | tcaccttatg | 10200 |
| aagaaaggta | taataataac | ccaaacaaaa | aattaaagct | ttgaaaacca | gcgtatgtct | 10260 |
| cactgtccca | accaatcaac | tcagtctgtc | attacagtat | ctatagcttg | aaaacccaaa | 10320 |

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| | | | | | | |
|------------|-------------|------------|------------|-------------|-------------|-------|
| gtgcgaatac | tagaaagtct | aaaatttgat | tgaaactttg | aataataatt | cttgcagaca | 10380 |
| ggtatcacaa | aaaagggact | attcataagg | tgtctgtcta | tgcaagaggt | ccatgggtacg | 10440 |
| tcaacatact | aagtaaatac | ttaccacatg | cagattaaat | aatatagggtg | ggtactcaca | 10500 |
| gagatggttt | ccgagctttg | tccatcacca | tttgttgctc | cggattcaga | ggatcttttg | 10560 |
| gttgtagacg | gggtaataata | agagactttg | agcttacatt | ctgttaatgt | ctttccactg | 10620 |
| tccttggtga | actagacaca | caagtattgc | atatataatg | tcaatttggt | ttccaaaaac | 10680 |
| tgcagaaaca | agaagaatct | taataaaaaa | agttttaaac | ttggatttct | tacagtgtct | 10740 |
| tgaggaagtt | catccacatc | agtgtgtgga | ggtacaatgg | tactttgcag | gagaaatttg | 10800 |
| tctttgcact | gcataatctg | aggatactct | cgttgcgctt | gtagagtaac | tataattaag | 10860 |
| aagatcttaa | tcattctccat | gttcaagttt | taaactgcta | atgaaagaag | ttagagtatg | 10920 |
| aggaattact | atacctctaa | tgatgcaaga | gtcccatggc | tgaatgacac | cagtgttagg | 10980 |
| tcttacaaaa | tacttctttg | gagatgttgt | tttcacctga | ttgatgaagc | caaaaacaca | 11040 |
| aaagaaagaa | gccattgtaa | caaacgaaat | aacttgatca | caagacaaag | catatgaagt | 11100 |
| tggtggtttg | atgcagaaat | taccttgaaa | gcaacatagt | tctctgtttt | attggcaact | 11160 |
| ttaagatcac | agtagctttg | cttctcaagt | tcaactgaaa | caaaatcaaa | aattccaaat | 11220 |
| gtcatccaaa | ggaagaccct | ccaaaaagtt | tcaaacagca | attttcttaa | taaccaagag | 11280 |
| aatcagcctt | atctaaagtc | agaacctcaa | aagctcaaag | aagttaacaa | aaacttgatg | 11340 |
| ctggtgtatg | taaacaagag | gaaaacaagc | attgatgata | cacacaattt | cgaaatctct | 11400 |
| agagaacaaa | aagatggtaa | attcgagaga | agccttttct | cattcacatt | tcacaaatta | 11460 |
| agaatagata | tccctagaat | taaccaagta | tagatgagac | aatgcatgc | cattgattaa | 11520 |
| cgaagagagt | gtagaagaat | gcttacagag | aaatttgagt | tcatcagggt | gaatggagat | 11580 |
| aagctgattc | tcgccaacgc | cggtcatctt | ttttttttgt | ttgcttaaag | ctacgacgac | 11640 |
| aaaagtttca | caatcaaata | tctattgaaa | aaagtataca | acaacatcaa | aaaatcgaag | 11700 |
| ccctaataca | aacaattccg | attttatcta | acttttttcc | agaaaaggta | aaaagagggg | 11760 |
| aaaaactgag | aatgaagag | aggaaaaaaa | gacggatcaa | acctgaagaa | aacaaaagtc | 11820 |
| acggtcccaa | cgatgagggg | ggaagaagct | gcttattttt | ttctctggct | ctcccagata | 11880 |
| tcgctctcca | ccaatatccc | aaaactctcc | tcctatctct | ctcctctcgt | tctattcgtg | 11940 |
| gtaacaaagg | caaaagaaga | gagagaaaga | gaaacgggga | agacgaaacc | caaaggcgct | 12000 |
| tcgtggagcg | gccacgtgaa | gtcgaagcaa | agtttccgta | cgattttcct | ccggcgctcg | 12060 |
| ctccgggaac | tgcggggaag | aagaaagagc | gaaagagaga | gaagagaggg | aaaaatgtga | 12120 |
| cacgtgtgaa | aacagttgtg | cattgtaaga | gacgaaaaaa | caaagggttaa | aagcgacagg | 12180 |
| ctggaaaaaa | gaggatgatg | acgtggcaga | tattgattgg | tgtttgattt | tatatagtgg | 12240 |
| ctaaaaaggc | tataatgagc | tttcagggtg | gtaggccatt | tttcgtctct | cacgattgat | 12300 |
| gatattttta | atttatttct | ccgtgtccat | taatgattga | ttgttagcaa | gtaattaatt | 12360 |

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| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| atcggacata | aaagtcatca | tacagaggaa | agagacaaga | aaaataactca | atcatttcgtt | 12420 |
| tcttttttcc | tgcttttagct | ggaaaattca | tttacetgaa | tgaattacat | gatttttacat | 12480 |
| gtaaaaaatc | tattttgaaa | agcaatttca | atgattcaaa | agttttatatt | taatgattaa | 12540 |
| atcagtcata | tttctgaaaa | agaataactaa | aggggtccaga | ttctacatac | tcaagatcaa | 12600 |
| aacaatcaac | attgattttac | ttttcttaaa | ttactgttac | tgtaaattac | atgaaaagaa | 12660 |
| atgaaatcca | aaagacgaaa | caaacaaaca | attattacaa | gagaaaagag | agtagctagc | 12720 |
| tacctttgga | gattgaagac | aacacaagac | aagactggtg | ttggggtttg | tgatcattta | 12780 |
| aaagttgaga | gacgaggaag | tttgtccctc | agatagtaaa | gtcttgctct | tctcactttc | 12840 |
| ctgtgactta | ccacttttat | ctcctttatg | ttgggagagt | atctgttaaa | ttcaaaacac | 12900 |
| acatcacatc | agatacatat | tctaaaccaa | gatcaaaaca | tattacttga | ttgtgtagat | 12960 |
| tagtatctgt | tcaagatcaa | aacatatcag | ttacatatta | cttcattgta | gaatcagcca | 13020 |
| atagtactgg | aaagttcata | gggactagta | tgttatgata | acggctagac | tctagagtga | 13080 |
| ttaagattaa | aggttggtgc | gcgtttctgt | agtaaataag | cacaaagctt | ggtgacctat | 13140 |
| aatgctaaga | cttcacgcat | ttatgtacta | gttcctatag | tatcatactt | ggagtagcaa | 13200 |
| ttatttcctt | ttttcgtgaa | gaaagctaata | acatatgatc | agatatagaa | ttgtaaatct | 13260 |
| cttaagttct | caagaagcga | agactatgac | tgttcacgat | aaaagaagct | aattccggtt | 13320 |
| tgtttttagag | ttcctaaaat | ctctctcaaa | gccaaaagac | tccttaacaa | gggtcaaagac | 13380 |
| ccttaactct | gactatctaa | tactatttac | atttatactt | atcaatatac | ccgagtaagt | 13440 |
| gtgtgataat | aggatagtta | aggaagaata | aacttacatg | ggaaagacga | tttcaacacc | 13500 |
| aatgcctgca | ataatcctcc | ggatacggat | agtagtggtg | atgcctgcat | tttgtctaga | 13560 |
| catcacaata | cctttgtaga | tagatagcct | acgtttgttc | tcaggaactt | cctgtaaaat | 13620 |
| caaaccacc | atgtcgtatc | aaaatcttgc | agttaaatgc | ataaattgca | taagattata | 13680 |
| cggggacaat | gagttttacc | agtttgattt | ctacaatatc | cccagtccta | agtccaggaa | 13740 |
| ccggtcttac | agtctctgca | acctcaatag | ctttcttggt | cagtagctac | agaaacaaaa | 13800 |
| agcaaatcaa | catttcattt | ctccaatgcc | taaaagataa | ctgatgattt | aagaacagga | 13860 |
| gccaaaacaa | ctacagtatc | agacatgtat | aatcagattc | agagccaaaa | caaaacacta | 13920 |
| gacaatctca | tagaatcaca | ttggataatg | aactaaccct | catgatattc | ccgagcttga | 13980 |
| ctctcgtctt | ccacggaggt | ttagcttcct | ccgccgaac | agtggcttct | ccttctcctt | 14040 |
| ccgcttcagt | ttcaacagca | ttctccacaa | cagcctcagt | ttcaccttca | gtactctctt | 14100 |
| cagcttttagc | gataaactct | tttctcttct | tggaatcgat | ggcgaaacca | aaattggagc | 14160 |
| tcgaatgatt | gagaaaaacc | ctagaaaactg | atagtcttga | gttcactgat | gatgctcgtg | 14220 |
| gtagaattga | agaaaccctt | aaattcttcg | acgagaaaga | aggggttctc | ggtatcatat | 14280 |
| gcaatgcctg | gttccataaa | tggtagataa | atacagaatt | caaagaagca | taagtatgaa | 14340 |
| aatgtgattg | agcgtgagag | agtgaagaag | aagaacctga | ggaagaagat | gagagctcgt | 14400 |

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| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-------|
| cgccatgttt | gcacaacca | aactcgaaac | cagagtaaag | aagagcctta | tcgcttatcc | 14460 |
| gctccgtgta | tttcaattta | tgggccattt | actaatTTta | tgggcctaga | catttaggcc | 14520 |
| catattcaat | tgatataaca | agaaacccat | taccaaagct | ggttctacca | gtctaccacc | 14580 |
| acgaaccaag | gcttgtccaa | gtacactaat | gtagaaccaa | aaatggttta | aataaagagt | 14640 |
| ttctgttaca | aacaaatgta | tgtttatgtg | tccttaaatt | gatagctcta | aataatctac | 14700 |
| tttgggcctt | ttaaaagtta | tgattgacga | ataaatttct | gctggagttg | aaatattatt | 14760 |
| ctatgtgact | atgttgtata | ttcaagtcgt | ctacatgttc | acgttacatt | gacttacacc | 14820 |
| gcaagcgatg | aaaagctatt | atatgttagt | ttaatcagaa | taccaaaaag | ataataatca | 14880 |
| aaatattcca | tcttctttct | ttgtgaaacg | aatatatatt | ctcttacagg | tggtttaatt | 14940 |
| aaaagcttga | caacagtagc | taatattagc | atacatataa | aaagttacat | taattggata | 15000 |
| cgaattttta | atctcctaaa | gatagttatt | ctccgattgt | atagaatcaa | aaaagaaaag | 15060 |
| aacaaaaatc | gacaaagaag | aagaaaaaag | attgattgat | tcttttgtcc | tccacgcatc | 15120 |
| tctctgagtt | ggctcggcca | cgtcagcatt | caaacatcaa | aaccaaaacg | catttaaattg | 15180 |
| tcgaaaagag | tgggtccctt | tttttctttt | ttcttaaccg | tgtcattgac | aaaaagagca | 15240 |
| cttaataagc | caaagccaca | tagaagaaaa | aaaaaagaac | attcacgtct | ctctcgtttt | 15300 |
| tttggccgac | gacgatcgct | gaattgactg | ccggagattc | ctttaatcgt | cagattctcg | 15360 |
| ttgagggata | atgaatcctg | aatagtaaga | aacttgtctt | ctcgttgttt | catgtatcta | 15420 |
| ttgtttcggg | tcgatccgcg | ttttttattt | tttgatgtgt | ttggtgattt | ggtttttgtt | 15480 |
| cgattttgct | ttggatcttt | gttggttggt | aggtttgtga | attgaatcta | cctaattttg | 15540 |
| ctcgtttaag | gtattttgta | ttagaatttt | gtatagattt | ggattttcgt | tccatggatc | 15600 |
| ttatacaggt | cagatccgag | gaaatttgat | cgagatctgc | aatttctggt | tactgttgta | 15660 |
| gttgaaattc | gcgagtgtga | cacaattttc | cctttgatct | cattagcata | ttgtatatag | 15720 |
| atgttcttgc | gtttttattt | cctgacccga | attttcatga | gtttatgagc | ttcactgaga | 15780 |
| ttggtgttta | ccgttctggt | gttgacgtga | ctatctgttc | aagcttctgc | ttattggtga | 15840 |
| ttctggtggt | ggaaaatcat | gcttgcttct | aagatttgct | gtaagtattc | ccacaattct | 15900 |
| ggattcatca | tctctggtag | ttacttttta | acattgtgta | cacacaaaaa | tttgaggatc | 15960 |
| acatcttgga | gttcaatacc | tgttgctcaa | gactcaaaac | tcaaaagtca | ttactccatt | 16020 |
| ggattagctt | agttctcact | atggtatcat | tgttactcct | ttgtgttctt | atttcctgat | 16080 |
| atcttgaatt | ttatgtggac | aggatgattc | ttacctggat | agctacataa | gcaccattgg | 16140 |
| tgttgacttt | gtaagcacct | tcatttgctc | atcactcatt | tatatacagg | aatcagaata | 16200 |
| ataagtgtta | acctttacta | atgatatcat | gcagaaaatt | cgcacagttg | agcaggacgg | 16260 |
| aaagaccatc | aaactccaga | tcgtaagtgt | tcttcagcta | gatatgcaat | cataatctgt | 16320 |
| taaaattttg | gaaagagcag | atagttactc | ttgttttggt | aatcgcttgt | gtatacagtg | 16380 |
| ggacacagca | ggccaagaac | gtttcaggac | aatcactagc | agctactaca | gaggagctca | 16440 |

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| | | | | | | |
|-------------|------------|------------|------------|-------------|-------------|-------|
| tgggatcatt | gtatgtactc | ttactctaac | caaccaatca | tcttcttggt | aaataacaca | 16500 |
| tcctatacct | cttgctcaca | attgcctatc | tttgaggtc | acttatgatg | tcacagacct | 16560 |
| agagagcttc | aacaacgtca | aacaatggct | gaatgaaatt | gaccgttacg | ctagcgaaaa | 16620 |
| tgtgaacaag | ctactggttg | ggaacaagaa | cgatctcact | tcacagaaaag | ttgtatccac | 16680 |
| tgagacagct | aaggtaattt | tataataaac | taggtgaact | ctctatccac | gtaaaccttg | 16740 |
| tcttaaagag | aataacattt | ttgttgcttc | atctccttgt | cccacaggct | tttgagatg | 16800 |
| aacttgggat | cccattcttg | gaaacaagtg | ctaaaaatgc | aaccaatgtg | gaagaagctt | 16860 |
| tcattggctat | gactgctgca | attaagacaa | ggtagaagac | taaattttac | ttgtgaagtc | 16920 |
| attaacctt | tacttccata | cttaaaagg | ttgttggtt | tcgcagaatg | gctagccaac | 16980 |
| cagctggagg | tgccaagcca | ccaacggtcc | agatccgtgg | acagccagtg | aaccagcaat | 17040 |
| caggctgttg | ttcttcttga | ttcaattagt | caccactcct | ctttcgatca | tcacaccatt | 17100 |
| atgatcattt | gtttgcattg | catgttagac | ttctccaaat | taacaactct | ttggatcctt | 17160 |
| ttgcttggtt | ttcatttgct | ttcttttgat | ccgattcttt | tctgatgtac | gttgaagttt | 17220 |
| gaaaccata | acttctatat | agtaaaagg | cttttatgca | aataatgtag | agcactcttt | 17280 |
| aatgccttcg | acgattctaa | atcatcgctc | aagtatgaaa | gatactagat | atcgtgctat | 17340 |
| tagaaatata | cttcatttat | gatgtacgaa | aagaaagatc | gaatgtgtaa | tacaaaaatt | 17400 |
| agagagaaaa | atatcttaat | aatttttttc | ataacttaaa | aaacgtaata | gtttcgcaga | 17460 |
| aaagaccttc | agaaagtgtg | acaaaaaatt | ataaaactaa | caaaattcaa | ccaaagagaa | 17520 |
| acgaaagaca | gagatagcga | ggctgaagga | ccaggggtct | ttactagccc | aacgaagggg | 17580 |
| actgagctgt | gtctccaatc | gccggagctg | cagcttcttt | tgcatacctt | tggtttcctc | 17640 |
| cttcaccacg | accaccgcga | cctcctcttc | cgcgggagcc | tccacctctc | ccgttggtacc | 17700 |
| tctttccatc | agccggcttc | aagaactcat | taatgctcaa | cgactacaaa | atcacccaaa | 17760 |
| atcactcagg | taaaaaaatg | acacaacca | aaagaaatca | tgaagtgaga | acagaaagaa | 17820 |
| ctaagacctt | tttggccttc | tcagtagcat | ctttgcgttt | ttccttgctc | gatccctgaa | 17880 |
| acaataaaat | accaagtatt | aactattgct | ccgttacagt | gaaggggaata | gataaactga | 17940 |
| acagtagatg | atcttctgac | cagcttgatg | aagatttctt | catcggtggt | cttcttggtt | 18000 |
| gagagctggt | gcatggactc | aaacactttg | gtgtcaactt | tcctttcctc | aacctttgtg | 18060 |
| gcttgagag | ccttcttctt | ctcctccaga | attttctcat | actcttctag | agtcactctc | 18120 |
| tatatgacaa | aaccatatca | gttcaaaatg | ttagcaaaac | ttctacttca | aacttaacta | 18180 |
| aacctcaaaa | gatgtttcaa | gagctgtaaa | tgattgtacc | ctggcttcag | cttcttcagc | 18240 |
| ttctttctgt | gctttctctt | ccgcagtggg | ttctttcttt | gcttcagggg | tttcatcctc | 18300 |
| acctccttgc | ttctcagcaa | cagggctctt | ctcaacctct | gtggtagggt | cctcagacgt | 18360 |
| tctaataata | gaacaacaaa | agttttataa | caacctaaag | ttaaagtcac | atggataatt | 18420 |
| aaagtgaaga | caaggatgct | tacggagggg | tatcatcttc | agtagtgccc | cagtttccac | 18480 |

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| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| gacctccacc | attacgtttc | atgccagtac | tatcaaacat | caagttaaca | taaagaatc | 18540 |
| acaaacagaa | gaagtcaaac | aaagtagtaa | ctaaagtagt | ggacagaaca | aaaagaaagc | 18600 |
| ttacccatga | cctgtcctgc | tatggcggtc | ataattcctc | ggtgggcggt | caacatcacc | 18660 |
| agattccccg | ttggcaactc | caccacggcg | aggtccttca | cgaccaccgc | caacacggta | 18720 |
| tccaccaaca | gacccaccac | ggcttgctcc | atcagcatct | tcagaaggtc | tcctgtatcc | 18780 |
| tccagaaaat | ccatttctcat | ttccaggagc | atcattgttc | ctgttggtccc | ggttgatcc | 18840 |
| accattacc | ctgccacggg | aaaatccacc | acgtccacca | gtcccaccac | gacctccttg | 18900 |
| aggagcattc | ctcgactccc | tactacatt | cataacaaaa | agctttcaat | atatatactt | 18960 |
| atcctaattc | aacaaagtat | taagctttac | cctaattctaa | caaagcagta | gagaaacaaa | 19020 |
| ataagatacg | gaagaaacta | acaaagcagc | aatgaaaaa | agcacacaca | tttgactatg | 19080 |
| gatctttcat | gacaaccata | aacaaacttc | actagaacta | atcaatcaaa | cactagacaa | 19140 |
| aacacagctg | aatctaaatc | tggttaagtat | caacataaag | gaaagaactt | ttacctgctt | 19200 |
| gagaaggagg | agccggcctg | gttgggaact | tagcggcctt | aggaggctga | acagcagcag | 19260 |
| cagctttctc | gactttctga | gacaaagcca | cagcgagctg | gcttggtatcc | tcagcatcat | 19320 |
| ctcctagaag | atcgaaaggg | ttcaaagacg | ccatcaccag | tctggtaaga | tcgagttagg | 19380 |
| tacaagtcac | aggagaaatt | ggtttacttt | gatgggttta | tagagagggga | aatcagtaat | 19440 |
| tcatggcgat | atacagaatc | agaaaaaaga | ggtacttgaa | gagagattat | tcggacagag | 19500 |
| ctgtttgtgt | ttaagagata | gcgaaacaag | aaccctaaga | aaagatgcgg | cagtgcagaga | 19560 |
| gagagggtgcg | acttaaaaac | ctaattctata | aacccttcct | gagttattat | tctctgcggc | 19620 |
| gggtgctatt | taactgtgtt | ctggctcctc | ctttatctat | ccgtgggcta | caaactgggt | 19680 |
| aagcccatta | acaataataa | atatcagctc | tcgttggtta | aagcccatta | atgaaaagaa | 19740 |
| tattcgttct | tagtccatta | agagaataac | tgggtttcaa | tactgaatcc | tctaggcgag | 19800 |
| acacggtttt | tctcattcta | aacctttatt | gggttcaaag | ttttatgtgc | ttcaaaaatc | 19860 |
| aaagatataa | attgattgct | taaagaatt | ttctctagca | gagcctttgc | ttgtcgacct | 19920 |
| tagacagctt | catctttctca | agagtatcaa | acagaaacat | ttacaagtga | ttacacactt | 19980 |
| aagctcacia | catttacaac | aaaaaaaaat | ctaaaataga | taggttatta | tttattgtcg | 20040 |
| cgctactggt | gatggatttt | ggtttttagta | attgttacct | cttcgatcaa | gttttggtta | 20100 |
| cttagcaata | tagaactcaa | attgagttaa | gagattgtat | taggggatata | ggtgtaatac | 20160 |
| tttaataaag | ccgtgaatgt | catgtaagaa | atgaaactag | attgaaaaat | taacactcac | 20220 |
| ggctttatta | aagtgtctat | tttgtttatg | gattgaagat | atatggctct | gttttagtaac | 20280 |
| taatttacat | cacgggaaca | cttttacttg | gtgcctcaac | atttatagca | aaactattca | 20340 |
| actacaaaac | acacaagatc | aaacttatga | aaccaataac | tcatcaacac | gtgtctcatc | 20400 |
| accaacctca | cacttcacct | gcaccacctc | cgacgtcaga | ttctctgctt | ttctccttcg | 20460 |
| tttcaacttc | ccgttttcag | acgacgacgt | agaagaggac | gacgacgacg | acgacgaaga | 20520 |

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| | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|-------|
| agatctctta | gacgtgatcc | gaaccgggtc | aggttcaccg | gaattaaccc | tcaacggaaa | 20580 |
| attcaataaa | gcgcggggaac | cacgcatcct | aaaagcagct | ataticgtaag | ctaaagccgc | 20640 |
| atcttccgcc | gtctcaaacg | tccctaacca | aaccctagct | ccattcttcg | ccggatcacg | 20700 |
| tatctccgcc | gcgaatttcc | cccacgggtc | ctgcctcact | cctctgtaat | gcttcgcctt | 20760 |
| cactgccgtc | tccgtaaccg | gtatcgcttt | ctttggtttc | tcctccatcg | ccgtaaagtt | 20820 |
| ctcagttggc | tgcactttta | ccgccggaaa | atcaaaaaga | cagctcaagt | ccgatgatga | 20880 |
| cgtgtcaaaa | tggaaggcat | ctttgaggag | tccgtacacc | aacatgtcct | ctgaatcatt | 20940 |
| ctctttcaat | ggcaaacctc | cccaactctc | tgtgaaacac | gaactcgggtg | ttgactcatt | 21000 |
| gagtcgcagc | tcgtttcttc | ctcctcctcc | tagcaagtga | cgtgttatcg | actccaacaa | 21060 |
| agcgtagtcg | gattctatat | tgcactgtcc | gtacattttc | agagaaacta | actatagagt | 21120 |
| tttttttgtt | ttgttgattg | atztatcaaa | tatctgaact | tttttctatg | tggaagggtg | 21180 |
| ttaagagggt | tatatagagg | gtacgagggt | cacgaacctg | gaaaaaaga | aaaagttttt | 21240 |
| catgtttttc | caaatttggt | ttagtttagt | gggtaattaa | aaaatatgaa | agttgtggat | 21300 |
| ttttcgttac | tacgaagggt | cgtgaattaa | acacgtgcgc | tttatccaca | gatatacaca | 21360 |
| tgaagaaggg | tcaagatgac | gtcatgtggt | catgacattt | ctggaagaaa | gatgctgatt | 21420 |
| tggttttgtc | tctcaacttg | tcccttggtt | tgtcgttcgg | ttttgaatac | gattccccgt | 21480 |
| tttattaggc | aaaactagtg | tttaattagt | ttgttaatcg | aaaaccaagg | tcttaattca | 21540 |
| ttatactttg | ttatatcgac | ataaattttc | aactaaactt | atatttcatc | gccttacact | 21600 |
| agagtaataa | tttttgctta | agtatacttt | attagatagt | attggcaagt | atattatatg | 21660 |
| tttaattaca | tgaaatctaa | gcttagatct | tgttatgggtg | gtgaatgaaa | aatcttaacg | 21720 |
| aggtgggcca | taattatatg | aatggggaca | ctgaaagtgt | ctgcaaaaat | cgggatacat | 21780 |
| ttctcctggt | caccaaccaa | ttcatatcat | catctttccc | tttcaccttt | cattttttact | 21840 |
| aattttcta | ttagaatttt | cctaattgcc | aatgtcatgt | ttatttttagt | actttttgat | 21900 |
| acaagatttc | atgattaaga | aattcattag | tgccacttta | gtcaataaat | atggagtagt | 21960 |
| gaaatcatag | tgataaagtt | ttcatgcaaa | gctcaattta | caaaccacag | tttaatccat | 22020 |
| atttgttgca | tttcttttct | ttcttttttg | aaaatataac | agccttagat | ctttttgtac | 22080 |
| accaatgatt | tggaattttg | tggaataatta | ttgaatttcc | atctctttct | attggctaaa | 22140 |
| agtcaataac | aacaataagg | ctcaaagaca | aattaatggt | gggtctctca | cgtatgtcca | 22200 |
| cttgcaaaag | ggacctcctt | cacggaagca | tagtttagtc | aatagtcact | caaactctct | 22260 |
| aaaaattagt | ttactatata | tttttaattct | atattcgatt | ccaagagtag | ttttggttca | 22320 |
| aacacatcat | tctggtcaga | tggttatattc | aattttgctg | tttttgagtg | tatatatgat | 22380 |
| gttatgtttg | taaacaaatg | aaacttttaa | ttgattacaa | gaacatgaat | agctctaaat | 22440 |
| atgattaaaa | acgaatttat | ttatttcttt | ggtaaaagaa | taatgataat | atacttatgg | 22500 |
| atccaatcag | gttaagttcc | gttttgcaat | taaatacttt | gattaattaa | atatgaaagt | 22560 |

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| | | | | | | |
|-------------|-------------|-------------|------------|-------------|-------------|-------|
| agtagttgaa | ctttcgtttt | tatgtttgaa | ctccgcagct | aatcctcaaa | ttatctcttt | 22620 |
| ggacgtttca | catacatcca | cttttgctgt | atcttaggaa | tatattgttt | tcatattgtt | 22680 |
| tcttgtttct | ttatgatttg | ggtttatata | attttcaaat | gtcatgatga | tcatcattta | 22740 |
| atcttagttg | ttttagtcac | atcttattat | gcttattatt | agtcggtgat | agtttaattt | 22800 |
| taagacgtaa | atcatctatt | ctcatattat | gctagaacaa | actttttctt | tgtgcaacct | 22860 |
| cctagaacat | atagtcgcct | attatccatg | gatcccagat | actcctccaa | gaccaccgaa | 22920 |
| aggtttaatt | atggatagga | accctttggt | ctacgttaac | accttgattg | acttccagac | 22980 |
| gaagaggtgg | aaagtagatc | gtctacggga | gttgttcccc | ccccccccc | cccaggagata | 23040 |
| ttactttgat | tttagggata | aaaccgaggc | taaatgtctc | gcgagatgga | tatagttgga | 23100 |
| cattgactaa | gttcggtaat | tatactgtca | agacaagata | tgaagctgcg | agagccctct | 23160 |
| ctcgcccgtc | ttgcgaccac | cctcttcagg | gacctagtgt | tacggcacta | aaggcgcaag | 23220 |
| cgtggaaatt | aaaaactaca | cgaaagctaa | agcattttgt | gtagcaatgt | gtgtcagagt | 23280 |
| gtttagcaac | ttgtcaacgc | ctatattttc | gccatattgg | tagagataaa | aaatgtccta | 23340 |
| gatgtggggc | ggatgaagaa | accatcaatc | atttaatatt | tgaatgtccc | ccggcaagac | 23400 |
| aagtctgggc | gctatccggt | attccctcct | ctccatctag | gtttctttcg | tcttctatat | 23460 |
| acaataatct | cgattatctg | tattggagag | cgaatgagat | tggagcttgt | gaggagagct | 23520 |
| tacgggtctt | tccatggata | atgtggtata | tttggaagc | gcgaaaccga | aaaaatttcg | 23580 |
| aaagtatttg | cgtgcaacct | caagacactt | tagacttagc | aatacatgag | gaagaagtat | 23640 |
| ggaggcgagc | caataggaga | gaagagcaac | cagaaggtag | caagccaagt | ttggaagggc | 23700 |
| aacatataga | tatggcttcc | ccaatctgct | tcattgatgg | gtcttggtat | ataactgatt | 23760 |
| cgcgagcg | tcatgggtgg | attttgacct | gtggggaaag | attgcttcat | ttaggattga | 23820 |
| agggttcacg | tcgttgttta | tcaccgcttc | atgcagaact | agacacatta | gtttgggctt | 23880 |
| taaagtgctt | agtagactta | tcaatcaagg | aagtccttgt | taagacggat | tgctctgac | 23940 |
| ttctcactat | ggtttaatac | ccggaggagt | ggccattttt | tgcatcagag | ttaaaagatt | 24000 |
| tcgagtattt | taagaatcaa | cttgatatct | ttaatattat | gcatgttccc | cgtactagta | 24060 |
| atatccgagc | agattatctt | gcgaaatgtg | caagaactcg | cggatttctat | ttttcccatg | 24120 |
| taagttcaac | ggttctcgat | tggctctctt | taaacgagag | cgcttatcca | tagaataata | 24180 |
| tatagagttt | taaccgggaa | aaaaaaaaata | ctcgcttata | gtttgcttta | aaaaaaagtt | 24240 |
| tcttccaacc | aacaaaagca | ctcaccta | cttacaactg | tgatttttga | ccaatgtttt | 24300 |
| tgttcatatc | tcttcaaaaa | aaaatttata | ctataatgag | cattataata | tattttctat | 24360 |
| cacatattat | tgtgcagaaa | ttaagtatca | agttaaaggc | aagtttttagc | aaaaacacga | 24420 |
| tttacggaat | tagcaacatt | tacacggacg | atcgcatatt | tcagacaaga | caaatacaga | 24480 |
| ggataaaaata | tcataaaaagg | gaaaatgacg | acacaaatta | tgtaggcagt | gattggtaca | 24540 |
| cattgttagt | tttttttaaa | atattactat | gtttttgcca | aaaaaaatta | cgaatcagag | 24600 |

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| | | | | | | |
|------------|-------------|-------------|------------|-------------|-------------|-------|
| caatcatgca | taaaaattag | aagaatagcg | taaatatttt | tctcttttct | attcacacct | 24660 |
| ttactcgctt | ttctattcat | tttcttattt | ttcctctcaa | ttactccaaa | aacataccaa | 24720 |
| ttagagttta | gattcatgat | gtaattgacg | aaaaaaatca | cccatatgat | tagttacact | 24780 |
| atatccgaac | actaatattc | ataaattttag | tgtctcggat | ttatgcatac | aaactttttca | 24840 |
| tggaagatgc | ttctcattta | caagctgatg | ataaaattga | tcttacattt | tttaacaatg | 24900 |
| aaatgtcttc | tattttttgt | tatagccaaa | ataactcagc | tttcagttat | atataatcta | 24960 |
| cagtttagtg | tattttgtta | actttaatcg | attcctaatt | cattttaatc | aacacatcta | 25020 |
| tatgtaggca | attggatgca | aaaggtacac | aaaacaatgc | aaaaggaagg | atcaaaggaa | 25080 |
| agatgttata | tgacacgtca | gcagtattca | aaagtttgaa | gttgaacaaa | tctagtcatg | 25140 |
| tttgactttg | accactgact | tttcaaacct | atcttttatt | agtagcaaac | tcagttccat | 25200 |
| acgtgcaaac | aacctcacac | gtgcgttccc | accgcaatgt | ttgaggtttt | cttcaacaga | 25260 |
| agacgatatt | tcttattatt | ataacgttag | attgagaatt | caaagattct | cgacaaatga | 25320 |
| atggtaactt | ttttctataa | gaatcacaat | aattagtttt | agttatacaa | ttttataatg | 25380 |
| ttggagtaat | tgtcacatag | atgattgggt | ggtgataata | gttgtttatg | tatgattgat | 25440 |
| caattaaact | tataattttc | cattggaata | atatttttct | gacctttaaa | tttggaatgt | 25500 |
| agatttatat | ggaaaaagta | gataatcatt | tttgtgacgc | taattaaata | tgttgtccca | 25560 |
| taacgacaga | aaaaaaaaaa | tgaacacaaa | atagagacca | gattgggttca | agaaaacgac | 25620 |
| acacagttta | ggatgctaaa | aaagctttgt | tagtaccata | tgattgttat | attgtttatt | 25680 |
| ggttccttaa | taatgtattt | agacgtcaaa | aaatgttttt | gtattgatat | gtgacctcat | 25740 |
| aactggttag | ctgcttaggg | ccattagatt | agagttttga | ttgtttcaaa | tgtcaaatct | 25800 |
| tacagtccgt | caaattttat | ttgatgtgaa | gtaagtgagt | tgataaatgg | gactactttc | 25860 |
| tccagttggc | tagggctcgac | tgctaataac | atttctccaa | ggaattaatc | tcaacgggct | 25920 |
| tgttgctcag | gcaacaattt | ataggaatag | agattgaacg | aaataattaa | cagattacac | 25980 |
| aacaatgttt | cctctacttt | aagcaagcaa | tcttcaaggc | tatattgatc | gactgattcg | 26040 |
| agacgcaatc | gtcttgtaaa | gaagaaccac | aaaaactatg | atgatatgta | atgcaaaactt | 26100 |
| gactcgtctt | tgagtaacac | ttcttcatct | agtccaatcg | tcgcagggtt | tcttttaatt | 26160 |
| tatttattta | ttatcttctc | ttttggtaag | aaagagcttc | tttaatttgg | ttaaactttt | 26220 |
| tttttttggg | taagtacaaa | acttctcatt | ccttaataaa | attgatatct | atattataaa | 26280 |
| atatcaaatt | ttgtaaaaca | aaaataatta | agagtagtgt | ttcacaacaa | caacaaatta | 26340 |
| aaaagactac | tatataaatt | aaaaagacta | cttggctttc | tagaaattat | taaatataaa | 26400 |
| tttttatatt | aaatctctga | tttgctatat | catttattaa | aagtgtgaac | tttattttgt | 26460 |
| ttcattgtaa | caagtaacaa | catgactttc | tagaatctag | tgagtgaagtc | gttgattcat | 26520 |
| tctacaaacc | agttaatgca | ccgcgtaaat | tcttttcacg | tgcatggtgc | agtgcataaa | 26580 |
| gatggatcaa | attaaatagc | aaaccaaaaca | taattcaata | gtatatcatc | ttttaaaatt | 26640 |

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| | | | | | | |
|------------|-------------|-------------|-------------|------------|-------------|-------|
| tgtatgatta | ataatctctg | tcaataaaag | gccgcatgca | ttgacttgac | tctttcagtc | 26700 |
| ttgtcttgct | tactaattaa | accctccata | atgcatcaac | ctaatacata | ccgaaaattt | 26760 |
| tctgagttgt | atttggttag | actttaatgc | tttactatca | ttttagttac | gtttgtgttt | 26820 |
| acctcgcaaa | aaatcttcta | gaaggataat | ataatactac | aatacaatgt | tggcattatc | 26880 |
| cattactgag | cgggtgtgaaa | ttggttttga | ttgtttaaca | tatgagttaa | aatttggttcg | 26940 |
| caatattggc | aaatttagcat | cggatatgct | attgtataag | aaaacgctta | tttttgaggat | 27000 |
| gcgcgtctac | ctgtaactgt | ataaactacg | taacgaacct | ttgaacgcag | agtgaatgtg | 27060 |
| agtctctgtg | acacgactta | aagcttaatc | agaagcagat | tattggacct | tatggagact | 27120 |
| ttatcaagat | tagctaata | aggttactat | atatgaaact | ttgaagtaat | tgtttgcagc | 27180 |
| cttttgggat | caataaacca | taaaagcatt | ggttttgttt | tctctatcta | tatccaattc | 27240 |
| cggaaagtag | aaaactggat | tagtaaaaaat | catattcaca | cattgcgaag | aaaaactatg | 27300 |
| tgcgcgcgga | tacgttggga | aaatctgcgc | atggtttaaa | gttttgcttt | cagtcaatta | 27360 |
| taattcgttt | tttatactcc | ctctgttcca | agatacttga | tattttgggt | ttttgcacaa | 27420 |
| gaattaagaa | aagtaacttt | tatatTTTTa | attattcttt | tagttagttt | aataatatta | 27480 |
| attttacttc | tctcatttca | ttattgggta | caaacaaaaa | taataatgat | agtttttcaa | 27540 |
| aacatcaatt | ttggtggaac | aaataaaaaa | actcaaaata | tcaaataact | tgaaacagag | 27600 |
| ggagtagtta | attaaaaaaa | gatatttcac | actttgactt | ggcgaagcct | cataacaatg | 27660 |
| aagttatgta | tgaactatat | atgaagttag | aaacaatgga | aaacagcttg | taaatattca | 27720 |
| ttgttgata | tatgtttttt | tgggtcaatt | tgggtgcatga | acaaaaataa | aaacgtagat | 27780 |
| gaaaaccgga | tatttttggtg | ttaacatttg | catttgaact | tcgtgaaaga | cggataaaag | 27840 |
| ctcatttttg | ttctttatta | tatggctgct | attagtagac | agagttgaac | tttagaatac | 27900 |
| taaaaatctc | gacatctttt | attttatttt | tgtcaagcat | cgacatcttt | tctgttcaag | 27960 |
| aaaacgaccg | caatagtcga | ataatataac | tcttgacta | gttaatatat | atttgcgata | 28020 |
| gattttcgat | ctcacttata | tcttataacc | aagagacaaa | aacaatattg | cagtcaagta | 28080 |
| caaacgaaa | acaatcacia | tgtcgactat | agatgagtcg | gtcattcgat | ccaacggctc | 28140 |
| tgagtccacg | aaacacgcaa | ccaagtgggtg | ctctctttta | caccaaatac | tattataaaa | 28200 |
| aacttaaaag | aaagagagga | tgggttcggtg | gtccttcttt | gttccttaat | taattcaaat | 28260 |
| tatattcatc | acctccattg | aataagtcca | ttcacgaca | aagtcaccaa | tgcttctttt | 28320 |
| acatgtatat | atacttcttt | ccactccctc | ttctctactc | aaatcaaata | ttcttctttc | 28380 |
| tctgttttct | taagcttttt | gaaaatttta | tcaatggcga | ctcctaacga | agtatctgca | 28440 |
| ctttggttca | tcgagaaaca | tctactcgac | gaggcttctc | ctgtggctac | agatccatgg | 28500 |
| atgaagcacg | aatcatcatc | agcaacagaa | tctagctctg | actcttcttc | tatcatcttc | 28560 |
| ggatcatcgt | cctcttcttt | cgccccaatt | gatttctctg | aatccgtatg | caaacctgaa | 28620 |
| atcatcgatc | tcgatactcc | cagatctatg | gaatttctat | cgattccatt | tgaatttgac | 28680 |

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| | | | | | | |
|------------|-------------|------------|-------------|-------------|-------------|-------|
| tcagaagttt | ctgtttctga | tttcgatttt | aaaccttcta | atcaaaatca | aatcagttt | 28740 |
| gaaccggagc | ttaaattctca | aattcgtaaa | ccgccattga | agatttcgct | tccagctaaa | 28800 |
| acagagtggg | ttcaattcgc | agctgaaaac | accaaaccgg | aagttactaa | accggtttcg | 28860 |
| gaagaagaga | agaagcatta | cagaggagta | agacaaagac | cgtgggggaa | attcgcggcg | 28920 |
| gagattcgtg | acccgaataa | acgcggatct | cgcgtttggc | ttgggacggt | tgatacagcg | 28980 |
| attgaagcgg | ctagagctta | tgacgaagca | gcgttttagac | tacgaggatc | gaaagcgatt | 29040 |
| ttgaatttcc | ctcttgaagt | tgggaagtgg | aaaccacgcg | ccgatgaagg | tgagaagaaa | 29100 |
| cggagagag | acgatgatga | gaaagtgact | gtggttgaga | aagtgttgaa | gacggaacag | 29160 |
| agcgttgacg | ttaacggtgg | agagacgttt | ccgtttgtaa | cgtcgaattt | aacggaatta | 29220 |
| tgtgactggg | atttaacggg | gtttcttaac | tttccgcttc | tgtcgccggt | atctcctcat | 29280 |
| ccaccgtttg | gttattccca | gttgaccggt | gtttgattag | ttttttttga | gtttttgaac | 29340 |
| gatgtgtatg | ctgacgtgga | cgtacacgta | ggtgcatgcg | atgaaaaaaaa | catctatttg | 29400 |
| ttcatatttt | tgcgtttttc | tatttgttca | ttctttttca | caattcacia | tacattattt | 29460 |
| cagttaatga | ttacggataa | tttagcttta | cgtaattta | ttatgagtac | tagaagaaat | 29520 |
| cggagtaatt | caacatatag | attatactag | tataaatgtc | aattgcattg | acattaattg | 29580 |
| aggaattata | gtagaacctt | gtataaaaag | aatgattcaa | acatgagata | ttgaccggcg | 29640 |
| ttatgtgaag | ttgttcagac | aataaatgca | taaccgtgat | tctgtctgaa | caagtcgatt | 29700 |
| cttaggataa | aaaatggata | aacttagtca | aaatatttcc | cacgtgggtta | gacttttgct | 29760 |
| tagttacatg | acgaatgtga | aagccatcca | tgcatgtatc | cagaagaata | tatcttgcac | 29820 |
| ggcgaattct | ctacgtattt | tagtatttta | gatttgacga | catctaattt | tcttttggtta | 29880 |
| tttcgggttt | gacatcta | ctgctaagaa | ccttttctta | taatcgaaga | attttggttg | 29940 |
| gtcgtcttgt | aagatattat | tttcagtaca | cactatctaa | tcattcatca | aggtcactaa | 30000 |
| tgggccttgt | ggtctaaact | ttgaatatat | actttcacct | atgaaatcca | gaagttctgg | 30060 |
| ctgggtaagt | tctaaaccaa | cctatcttat | acatcgaaac | acaaaagata | attggaacta | 30120 |
| caaacaaact | ttacccaaaa | attattagtt | tgtttttatc | tccgtagatg | aaattgggtt | 30180 |
| ttctaaatcg | ttttcgaaga | tgaacgctaa | tcaaacaaaa | gtggtataac | acagtttggt | 30240 |
| acgaaatttt | gttaggaaaa | taaatgaagt | atgtgttttg | cgtcgacctc | aaaataaaat | 30300 |
| acatatataa | tcttgcatgc | taatattatt | gtatagaata | ccaatcaggt | aagaatcgct | 30360 |
| cgtcatcata | cgactattca | atatccaaac | atattttatt | ggaaaacccg | accacgaata | 30420 |
| atggttagct | ttacatcatt | atccacacat | actcaaattg | ttaaattttc | tagaattgta | 30480 |
| atggaagaca | caatgttatc | acgaatgagg | atcatcatgc | acttcagggt | acctaattat | 30540 |
| cctacgtgga | caatacctaa | tccttccatg | attttcaatt | attgcagata | atttttctga | 30600 |
| acgtcatcat | ttcccataac | gaataatcat | ttcctcaatc | aacgcaaacc | taactatcta | 30660 |
| tgtcatttac | atgtttatgt | ggtaaaaatc | tgcttagaat | aagtaaacct | tcacatatat | 30720 |

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| | | | | | | |
|-------------|-------------|-------------|-------------|------------|-------------|-------|
| attgtaacaa | aataattgag | gttaatgtta | ttcaatgcga | aaaaatgtaa | acacttgcta | 30780 |
| atgagtcgta | ataaccctat | attatTTTTc | caaaacatgt | ttctattgaa | gttacaaatt | 30840 |
| aagtttccac | tctatttTga | tggagcgtac | tagtcgtaga | cacggagagc | ttccaagtcc | 30900 |
| atcggatcaa | cttatcaaac | ttatcgacct | tttgggtccac | aacaagatat | cttttTgtcca | 30960 |
| tcttcatcat | ggctctcgca | agaggatggg | ttacatatat | ggtttgcttt | attgcttaat | 31020 |
| agggattaat | ttctctaata | cttttgatta | gcttttcgca | aacatttttc | agcataagga | 31080 |
| cgcattctgac | gtacaaatta | aaaatccaaa | tgaactaaaa | tactttttaa | cagaaaggac | 31140 |
| aaggaatcta | agccatcaag | gcccattctcc | acgtagctcc | agcaacgaca | agatgcttta | 31200 |
| ttatcccatt | ctcgtggata | cttTgtgtgag | atacacgctt | cagataaatc | aacggacgaa | 31260 |
| attgtaaaaa | gcgtgaggaa | gagagagcct | ctttccaaag | gagagggatt | ggatcattga | 31320 |
| gatatatccg | tttatccatc | cttgaactcc | tgaagattcc | ttcgcacaga | caactctctc | 31380 |
| gaacatgtta | aagattctct | gatacctaac | tattgattcc | ttttccctg | catttttcgt | 31440 |
| tcactatttt | tgcttataac | ttttTgtact | aaaattaaaa | atcatgccac | catcctgtat | 31500 |
| ttcatatcca | aaagctttTg | attatTTTTat | aatatatcat | tggcttgatg | tgattgatat | 31560 |
| ttaccaaaaa | tctattctag | tttctTTTTg | taacaccaaa | tgttatttaa | aattTgtatt | 31620 |
| ggaaaaatga | ttcattttata | taagttatta | tatccctctt | aaaaattgta | taaaatctct | 31680 |
| aagacattat | taattgtaaa | agatagacac | aacacgtagc | tatatgtcta | tatccaaaaa | 31740 |
| taaaacacgt | agctatatgt | aatattataa | aatgtacat | atattattag | ggttgtaata | 31800 |
| tttggtcggt | tgaaaattga | aatcgagct | caattggaaa | ttcacgtgta | ttttgtcttt | 31860 |
| gattgtaaga | tattaaaact | gttcttcgct | ttccttttct | catttctcac | ttaaccactc | 31920 |
| gatccacttt | aaaccacaca | ttataagtgt | gcctcaaaaa | aatctaacat | tactctctca | 31980 |
| acacatctct | ctttcttctc | catttccttc | ttctctttca | ttctcttatt | taagatttaa | 32040 |
| atctgctcaa | atgcttgtaa | acaaatttca | agttctttaa | acgatttcct | tttcaagaaa | 32100 |
| aatccttctc | cttcttcttt | ttaccacata | gatcttcttg | atctacaatg | gattctgttt | 32160 |
| ctctttctga | ggttactgtc | attaaaggaa | caacacattt | gggttttatg | cacagtttca | 32220 |
| gacagccatt | ttgtgggtgc | aaaatatctc | caaagtctta | tttatccaaa | ggtaaataat | 32280 |
| aacaccttaa | aatcacttcc | tcttcacaac | aagaatcttc | attgtctttt | ttaaaaattg | 32340 |
| tttttttttt | tttgcatttt | ggacgagaag | ttgatggacc | aaaggcaata | tcttcgagca | 32400 |
| gcaacacaaa | gagtcaattt | gtttatggag | gaggaagcat | agctgcaact | tcagattcag | 32460 |
| gttataagat | gaatggagta | aacctaaaaa | gcagaacatt | gatgagttct | gcagttaaag | 32520 |
| aaagatcatt | acttgatgct | tatgatgatg | agtatggtgg | agtaatagta | gatcatggaa | 32580 |
| aattaccatc | aaacccttat | gctttcgctt | ctatgcttcg | agcttctcta | tccgattgga | 32640 |
| gaagaaaggT | aaaaacgata | aaccctataa | aagtcttaaa | cccttttggt | ttgttacata | 32700 |
| tgtaaatttg | ggggaaattt | ttgtagggaa | agaaaggagt | ttggttaaag | ttacctgtgg | 32760 |

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| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| aacaatcaga | attagtccca | atagctataa | aggtaaagcaa | taagaaaatg | gttcttgatc | 32820 |
| ttgtttgata | aagcagagat | ttgtttatgc | aagttaatga | ttttttgtgg | attgattttg | 32880 |
| caggaagggtt | ttgagtatca | tcatgcagag | aaaggatatg | taatgttaac | atattggata | 32940 |
| ccagaggagg | aacctagtat | gcttcctgca | aatgcttcac | atcaagttgg | tggtggagggt | 33000 |
| tttgatttaa | atcaacataa | agaggatatca | atatatgaat | gattattctc | tcaagtctca | 33060 |
| acacttaaag | tagagtaggt | aaaaagaaga | gttacctgaa | ttttttttta | aatctcatta | 33120 |
| ggtgcttggt | gtacaagaaa | agtattgtgc | tccttcgatt | actggtctat | ggaagttacc | 33180 |
| aacagggttt | attaatgaat | ctgaagagat | tttctctggt | gctgtaagag | aagtcaagga | 33240 |
| agaaactggg | gtaattaaat | ccgagaagat | tagtatatag | tataaatctt | gattctgttt | 33300 |
| aaaaattcgc | aagatcataa | ccatgtatgg | cattgtgttg | tgttattcag | gtagatacag | 33360 |
| agttctcaga | ggttatagct | ttcagacatg | ctcacaacgt | tgcatttgag | aaatctgatc | 33420 |
| tgttcttcat | ctgtatgttg | agaccactct | ctgataagat | aatcatcgat | gctcttgaga | 33480 |
| tcaaagccgc | aaaggtaaata | gtaacaagag | tctttattag | aatgctccag | ttgtacatgc | 33540 |
| tacaagacgg | tcctgattac | aatgattgtt | gtgtttttca | gtggatgcca | ttggctgaat | 33600 |
| ttgtggagca | accgatgata | agaggagaca | aaatgtttta | aagagtgatt | gaaatatgcg | 33660 |
| aggcgagatt | aagccatcgg | tactgcggtc | tttctcctca | tcgacttgtc | tctacttttg | 33720 |
| atggcaaacc | ttcttctctc | tattacaacg | ttgttgatga | tgatcatgat | ccttcccact | 33780 |
| ccaattgtag | cactgagttt | tatagataga | cgggtaaaac | agaaccaaata | caagtgggtc | 33840 |
| gattctgtat | atacttattc | tcatgtaatg | tatgttggtta | tttgatactc | tctcttcagt | 33900 |
| atagtaaata | gtaatagatc | ctctgcaaaa | tccatgtagc | atcgaaccgg | tactctcagt | 33960 |
| agactataca | ataaaaagat | ctgttcaaat | aaataaccgg | tgggtcaaca | caagtttaaa | 34020 |
| caatattcaa | actcttggaac | tgacatatct | aacgcatata | atataatgta | aaccaagttg | 34080 |
| taattttaat | tcatagaaga | agacattatt | gcaatggact | aattcaacta | aaccaagcta | 34140 |
| gccaaacatg | tcaagatcct | gtgcaaaaata | tctgcttctc | tctcaaacc | tgagcacaat | 34200 |
| agataacata | caattgtggt | ggaacatgga | aacgttttca | ggaatttgac | aagacaaaac | 34260 |
| aaatgacaag | ttgtggaaac | atacaagaaa | taagaacgta | cgggacaaag | tgacaggaaa | 34320 |
| aaatagctct | tgccctcctc | cactatccca | ttcaaagcct | tatatatgag | atcatcatcg | 34380 |
| attttcttat | aatggacggt | gatgaagatt | cgggcagttt | tctatatcga | ctttgttcag | 34440 |
| cttcagtttt | ggaaaagaga | cttgactccc | atagatgctt | cctagttcct | tcaataaatg | 34500 |
| tagacgaagg | acttgtagct | cttgaaaagg | atcaacccca | acaccttgag | ctttctcttt | 34560 |
| gtttattaat | tctgtcatct | taggcgagga | ttccacgctt | agagactcga | gatttgcagc | 34620 |
| atacatcagc | catgtcaaat | ccttttagatg | tatgcatgag | tttattacca | cagctgagag | 34680 |
| atccttgaac | catggattgc | ttggagtgat | ttcactggat | gatgtggatg | gagaataactg | 34740 |
| gtctcttctc | ttaccttccc | attctgttcc | cgactctgtg | atatcgagct | ttaccatttc | 34800 |

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| | | | | | | |
|------------|-------------|-------------|------------|------------|-------------|-------|
| aagtttgtgg | agactactca | acgtaccaat | ggctgcaa | gatactttta | gtccttctag | 34860 |
| atatataccc | tgcgtcatcc | ctgccaatct | tgtgcttcct | agaaactctt | ccaaaacaga | 34920 |
| atcgttattc | acagtaacgg | tcaaaagttg | taaacccttc | aactgctcca | agatcttgag | 34980 |
| caagcagcaa | tctaattgcag | cagcagaacc | ataaaatctg | agaacctgca | acttttgtaa | 35040 |
| ttctgaaatc | agaccgacgc | ttcgaagatt | ggaagtggac | tccaaattca | agtgaatcaa | 35100 |
| tttactcaag | actcctaaac | cttccggcag | atgctttata | ctcgtccctg | ataagttgag | 35160 |
| aagccgcaaa | gaaaccaacg | ccgagattcc | ttttggcaac | tcggtgattt | ggaagttcca | 35220 |
| agatagatcc | aaaaccacca | gagtcgacat | gaccagaaag | aattttacca | caatatctac | 35280 |
| caacctgtta | ttttgaagga | acaagggttac | aagatttgct | tggtcaggaa | attcaggatc | 35340 |
| gtctggtatg | ttcttaatct | cattgttgaa | cagagacatc | tttgtcacag | ttgtccaatc | 35400 |
| ggtgacatca | ggcagttggc | ttaaaccagc | atctgttttc | acaacatatc | tttctccatc | 35460 |
| cctaaattca | gatactatcc | acaatgccat | atcacggatc | atatcatgca | tatacacttt | 35520 |
| cttattagac | tctaataaca | aacctgcccc | aacaagatta | tcgatgatct | catagcctcg | 35580 |
| atcttttgct | ctctctcttc | cgtctttttc | atctatgaaa | ccctcaccta | tccaatactc | 35640 |
| taccagctca | tcttgtttga | tataatatgc | cttgggaaat | aaagcacaat | acagaaaaca | 35700 |
| cttggcattt | tttgttttca | aataatcata | gctcaacttc | aaaacttgaa | atattccctt | 35760 |
| ctctgtacct | ttcatctcac | tccgataaga | ctccaaagta | tcgagtgcac | gacgccattg | 35820 |
| aatcacagta | gatttagatg | ccatagtctt | tcttataact | tcaagtgcaa | ggggtaagcc | 35880 |
| acaacactta | gccacaatct | tttttgcaat | atcagaaatt | tcatttaacc | cgctcgcaatg | 35940 |
| gaccttcata | tcgaacaaat | cccattgcgtc | attctccgac | aaacattgaa | cttctatgtc | 36000 |
| ctcatttgcc | ctcataactg | aacagacatc | cttagaacga | gtagtaaaca | cgactttgta | 36060 |
| ttttttaccg | agcactggga | tgcctattgc | tgttaaactc | acatcctccc | ataagtcatc | 36120 |
| taataacagc | acgaaccggg | gcttcatatc | tcttagtacc | ctgcttattt | cactagcttt | 36180 |
| cttccctctt | gagtatgtag | accaattatt | gtcacagatg | tgtaatcttt | ccccgatggc | 36240 |
| atcttgaatc | ttcccgacat | ctgcatcttt | agacgattca | acccaaataa | caacatcata | 36300 |
| atcatcactg | acttcaacga | acttgttggt | aattagagtg | aggagggtag | ttttgcctac | 36360 |
| gcctcccata | ccgaagattc | ccaacattct | gttttcatct | tttctaagac | tttcccaagt | 36420 |
| cttttcaagc | gtcgtatcaa | gaccgactgt | ttgttggcaa | agtctcactt | ctaccacagg | 36480 |
| aggaggaggt | tgctcagtca | cttcttgaaa | atctttaccg | gagagacttt | taacttcagt | 36540 |
| caacttcttg | aataccttct | cgcctagggt | gcagggtgag | aaccagcacc | cagatgttga | 36600 |
| cagacgtcga | cgtacagctg | aagcattctg | agaagaagca | tcccgaagcg | acgcaacatc | 36660 |
| cattaactgt | ttggtgtttt | cctcaatgat | ttcgacttgt | gaaagccacg | tagccactat | 36720 |
| agctagccgt | tgaccaccct | taagctcacc | agcattgact | ctgttttaca | catcttcttt | 36780 |
| ttctgcttta | agctcatcaa | aagcactctt | caacaagaca | agattttcct | tcaacatgca | 36840 |

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| | | | | | | |
|------------|-------------|-------------|------------|------------|-------------|-------|
| aatgttacct | accttttacac | acaagtaaga | caaagcagac | ttataacatg | gctcaactac | 36900 |
| ctgccaacag | caattcattg | tgctcaagat | tgagaaagag | aactaagatg | agagtagcaa | 36960 |
| atttaaaaca | gatcttttga | cagaacagga | tgtctgaatc | gggggagtag | aaatagggaa | 37020 |
| acagaacttt | gtgcaggacg | aactagagag | accagagaaa | aggaagagac | cagagaaatg | 37080 |
| gagagatgat | gaaagaagaa | aaataatgga | gagaggaaaa | gaactagaga | aaaaagtatt | 37140 |
| gtggaatgcc | tttaatatcc | ctaccccacc | cgcatgttgt | agaatTTTTT | gtaacaacaa | 37200 |
| tgatgactaa | aagggtgact | gtgtctgtgt | ggtaggtaac | gttattgggt | cattgattta | 37260 |
| caaatccata | tataattacg | caacatgtgc | taagatattg | acgtggtttg | gtgtcagcta | 37320 |
| agagacaaat | attggttcac | tgattaataa | attcatatgg | gtttgaactc | atacatagaa | 37380 |
| taatattggt | gttcttaaat | ttaaaaacat | ccacaaaacc | aggttagaca | aacaaaaatg | 37440 |
| actaacaag | cataaacgaa | tactatatgt | ccaccaacca | tatgcaaaac | gaaagaaaaa | 37500 |
| aacaatgaaa | tccatgaata | aagatttata | aaatgaaaga | tccacaaaag | tatcaccaca | 37560 |
| agccacgtaa | ctcccatatg | cattaaaaca | tatcaaattt | aatttcaaat | agtaacacaa | 37620 |
| aaatttcatt | ttgtaaccaa | aaaatcaaat | taaaatttta | aaaggaagg | gcaatattgt | 37680 |
| caaccacaa | agccaaaggg | gaaagtggct | gaaaaattca | gtctcaattc | agttgactcc | 37740 |
| taaacacaca | aaatgggaaa | taatttctca | gttgaatctc | catctttggc | gccgttcctg | 37800 |
| tgtgggaaac | gcaagtattt | atacaacctg | gagagaaatc | tagaggcttt | gcataaagta | 37860 |
| atgcaagacc | tcaacgcaat | gagaaacgat | ctgttgaaga | ggctgtcgaa | agaggaggag | 37920 |
| ataggtctac | aagggttaca | agaagtcaaa | gagtggattt | caatggtgga | agagattgaa | 37980 |
| cctaaagcca | atcggtgct | tgatgaaagt | gtctctgaaa | ttcagagact | atcaaggtag | 38040 |
| ggctattggt | ctctgatccc | tgctgtgacc | tatcggtaca | gtgaaaaggt | acttacgact | 38100 |
| atggaaggag | ttgaaactct | gagatctaag | ggagtcttcg | aagctgtcgt | tcacagagct | 38160 |
| cttccgcctc | ttgtgataaa | gatgcctcca | attcaactta | ctgtttctca | agcaaagttg | 38220 |
| cttgatacgg | catgggctcg | tctaattggac | ataaatgttg | ggactttggg | tatttatggg | 38280 |
| aggggtggag | taggcaaaac | cacccttctt | actaaactca | gaaacaagtt | acttgtagat | 38340 |
| gcatttggtc | ttgtgatctt | tgattgttgt | gggtttgaag | aggtcgagag | catacaggat | 38400 |
| gaaattggta | aaagattagg | cctccaatgg | agaagagaaa | caaagagcgc | caaggcagct | 38460 |
| gaaatattgg | cagtcttaaa | ggagaagaga | tttgtgttgt | tactggatgg | catacagagg | 38520 |
| gaattggatc | ttgaggaaat | tggagtccct | ttcccagcc | gagataatgg | atgcaaaatt | 38580 |
| gtattcacca | ctcaatctct | ggaagcatgt | gacgaaagca | agtgggttga | tgctaaggta | 38640 |
| gaaattacat | gtttgagccc | ggaagaagca | tgggatttgt | ttcaagagac | tgctcggagag | 38700 |
| aacacgttga | gaagtcatca | agacatacct | aagctcgcaa | gagtagttgc | tagtacatgc | 38760 |
| cgtggtttgc | cccttgctct | taatctcatt | ggtgaggcca | tgtcaggaaa | aaggactgta | 38820 |
| cgcgaatggc | gttacacaat | tcatgtcttg | gcttcatcca | cagccgaatt | tccagatatg | 38880 |

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| | | | | | | |
|------------|-------------|-------------|-------------|-------------|------------|-------|
| gaagatggga | ctcttcccat | tttaaagtct | atctatgata | atatgagtga | tgagatcatc | 38940 |
| aggttatgct | tcctttattg | tgctctgttt | ccagaaaatt | tgatatatagg | aaaagaagat | 39000 |
| ctggtaaact | actggatatg | cgaggggaatc | cttgcaaaaag | aagatagaga | ggaagctgag | 39060 |
| atccagggat | atgaaattat | ctgtgatttg | gttaggatgc | gattgttgat | ggagagtggg | 39120 |
| aatggaaatt | gtgtaaagat | gcatggtatg | gttcgtgaaa | tggccttggtg | gatagcatct | 39180 |
| gaacactttg | ttgtggtagg | cggtagagaga | atacatcaga | tgctaaatgt | caatgactgg | 39240 |
| cggatgatta | gaagaatgtc | agtgacgtct | actcaaattc | agaatatatc | agattctccc | 39300 |
| cagtgttccg | agcttacaa | cctggtcttt | cgaagaaacc | gacacttaaa | atggatctca | 39360 |
| ggtgctttct | ttcagtggat | gacaggactt | gtagtcttgg | atctatcatt | taatagagaa | 39420 |
| cttgctgagt | tgccggaaga | agtttcaagc | ctggtgttgc | tgcggtttct | caacttatca | 39480 |
| tggacatgta | taaaaggatt | gccccttggt | ttaaagagc | ttaagagttt | gatacacttg | 39540 |
| gatttgatt | acacatctaa | tcttcaagaa | gttgacgtga | tagcaagttt | attgaatttg | 39600 |
| caagtactga | gattatttca | ttctgtttct | atggatctca | agttaatgga | ggatatccaa | 39660 |
| cttttgaaga | gcctgaaaga | gttgagtcta | acagtgagag | gatcttctgt | tttgacgcgg | 39720 |
| ttactaagta | tccagcgatt | agcaagttct | atccgacgtt | tacatctaac | tgaaactaca | 39780 |
| atagtcgatg | gaggaatatt | atcgttgaat | gctatattca | gtctttgtga | gcttgatatt | 39840 |
| ttgggatgta | atatcctgga | gataaccatt | gattggagat | gcaccatcca | aagggaaata | 39900 |
| attcctcaat | tccagaacat | acgcacaatg | actattcatc | ggtgcgaata | tcttagagac | 39960 |
| ttgacatggt | tgctatttagc | cccgtgtctt | ggtgagctaa | gtgtatctga | atgtccgcaa | 40020 |
| atggaagaag | taataagcaa | agataaagct | atggccaagc | tgggtaatac | gagtgcgcag | 40080 |
| ccctttcaaa | atctaactaa | gctcgtctta | gatggtttac | ctaaactgga | gagcatctac | 40140 |
| tggactcctc | tacccttccc | agttctggaa | tatttagtga | taaggcggtg | tccagagctg | 40200 |
| agaagacttc | cattcaactc | tgagagcact | ataggaaatc | aagttgaaac | gataattgag | 40260 |
| gagcaagtga | taaaaatagt | tgaatgggag | gatgaagcta | caaaacaacg | tttctcccat | 40320 |
| ttcaataaca | ggtatcttct | tccttatcct | acattttctt | ctctattttt | ttcgataagg | 40380 |
| tttcttaaat | ctataaaagc | ttggccatga | ataactagca | tcttcccacg | ggaatgtcac | 40440 |
| ttaccatctt | cttaattttt | tatatatttc | aatgtcactc | ttattattca | tagaatctgg | 40500 |
| aaagctgatt | tgataagatt | ttgcaatggt | gatccttatt | ttgattgatc | attgtttgtt | 40560 |
| cgaattatgt | aacaaacgaa | cggagtgcag | agactttgta | cagatggctg | aagatccgaa | 40620 |
| gatggatggt | ttgacatcgg | agtcacatcc | aattcaaacc | atagacctgg | tcgggactac | 40680 |
| aggaagtgga | gaaactgcc | ctgcaaaaca | catccaagga | aagaagggtg | tccaatcggg | 40740 |
| aacacacgca | actgttggtt | ccatggaatg | ccagacatat | aaagttttca | caccagattg | 40800 |
| ccccatcaac | aatatgattg | acactcctgg | tacgaatttc | cttttatgtt | atacctaact | 40860 |
| aaattatcat | gcgtgggaag | aaaaaataca | aattttctaa | taagtaagg | ttgtacttta | 40920 |

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| | | | | | | |
|------------|-------------|-------------|------------|-------------|-------------|-------|
| cgtatacaat | tagaataagga | tccacgtaaa | atgtgtat | ctaat | atatagttta | 40980 |
| aaattaaaa | gtgacaaaac | taataatgct | gaaccaaata | ttataatgta | tataactatc | 41040 |
| aatactat | tcaattatat | aattgatatg | at | actaccatac | gcatatgaca | 41100 |
| tatatattta | ttatttatat | gaacacaaaac | tctcattcat | taaactagtg | actaaagttt | 41160 |
| actttgctca | caaaagagtt | gatttaa | ttttcacaaa | caccatccgg | acgtaaaatg | 41220 |
| tgtaatggaa | catacataga | gaccaaataa | ttataaattt | ataatagata | atgcttctat | 41280 |
| gtatatgtat | gtttgtatgt | aagattacgt | catctcaggt | gaactattgt | tgagtttttg | 41340 |
| atattgaaca | ctgggttaaaa | gtcattgaga | ctgtgtctct | gatgctagaa | agtccttcat | 41400 |
| ttgatgctaa | aaagactttg | ggatccgagt | tttgtttctg | actgtgtcat | at | 41460 |
| tttggaact | ggatttaggc | aagaggaagg | tgaaggagat | gctttttaat | ttgaacgatg | 41520 |
| aggcaagaat | tattgggatc | tcagggatga | tcggttcagg | gaaaaccatt | cttgccaagg | 41580 |
| agcttgcgcg | ggacgaggag | gtccgaggta | atcagttttg | ccctttgtta | tgtctgaaac | 41640 |
| tatccattgt | taatatgctt | gggccatctt | tgaagtcttt | tgagcagttt | atgttggtgc | 41700 |
| tcagtggcat | gtttactggg | ttatttgga | gatcatgcat | ttatctctgt | atgttccatt | 41760 |
| gtgtcatgtt | catctccggg | gaactgttga | tgagtcgtat | agttgagttc | ttgatattag | 41820 |
| aatctgttaa | gagtcggaga | gactgttcct | ttgatgctaa | aaaagcttta | atacaggcca | 41880 |
| ttttgcgaac | cgagttttgt | ttctgactgt | gtcacaatct | cccaatcttg | aggagctgag | 41940 |
| atcccttata | cgggattttc | ttactgggtca | tgaggctggc | tttgggtaccg | ctcttccgga | 42000 |
| atccgttggg | catacacgga | agctagtgat | ccttgatgat | gttaggacaa | gggaatctct | 42060 |
| agaccagctg | atgttcaata | ttcctggaac | cacaacgctt | gtggtctcac | agtctaaact | 42120 |
| cgtagatcct | agaaccacct | atgatgtaga | gttattaaat | gaacatgacg | caacatctct | 42180 |
| gttctgtctc | tctgctttca | accagaaatc | agttccttca | gggttcagca | aaagtttggg | 42240 |
| caagcaggta | atgggtctgc | tacaagtgtt | acatgcatag | tagtaatatt | ctttgtactt | 42300 |
| tcagtactca | tcttgactct | at | ttgttgggga | gtctaaagg | ctacctttgt | 42360 |
| ctctgaaagt | ccttggcgct | tcattaaacg | atcgacctga | aacatattgg | gcaattgcag | 42420 |
| tgagagaggt | atcaagaggt | gaacctgttg | atgaaactca | tgagagtaaa | gtgtttgctc | 42480 |
| aaatcgaagc | aactctagaa | aatctcgatc | caaaaaccaa | agagtgtttc | ttggatatgg | 42540 |
| gtgctttccc | tgaaggcaag | aaaatccctg | ttgatgttct | catcaacatg | ttgggtcaaga | 42600 |
| tacatgatct | tgaggacgca | gccgcctttg | atgttcttgt | tgatctagca | aataggaatc | 42660 |
| ttcttactct | cgtgaaagat | ccaacgtacg | gttatagaac | tctttatgtt | ctcatctctt | 42720 |
| gtagccactt | ttataatttt | aaccattctt | aactaattta | ccgtggataa | tggtgcagg | 42780 |
| ttgtcgctat | gggcactagc | tactatgata | tattcgtgac | gcagcacgat | gttttaagag | 42840 |
| atgtagcact | tcattcttacc | aatcggtgaa | aagtaagtag | aagagaccgc | ttattgatgc | 42900 |
| caaaaagaga | gaccatgctt | cccagcgaat | gggagaggag | caatgatgag | ccatacaatg | 42960 |

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| | | | | | | |
|-------------|-------------|------------|-------------|-------------|-------------|-------|
| cacgagtgggt | ttccattcac | acaggcaaga | atttggtatg | caacgatctt | ctaatgaatt | 43020 |
| aattcgggttc | gtcactagaa | tcataaggta | ttaatatgga | tttctttaca | ggagaaatga | 43080 |
| ctgagatgga | ctggtttgac | atggatttcc | ccaaggcaga | agttctgata | gtaaacttct | 43140 |
| cttcagacaa | ctatgtattg | cctcctttca | ttgctaagat | gggaatgctt | aggggtgttcg | 43200 |
| tgattataaa | caacggtacc | tctccagcgc | atctacatga | cttccccatc | cctaccagtt | 43260 |
| tgaccaatct | aaggagtctc | tggcttgaga | gggttcatgt | ccctgaactc | tctagcagta | 43320 |
| tgataccctt | gaaaaacctc | cacaagctat | atctgattat | ttgcaagatc | aataacagtt | 43380 |
| ttgatcagac | agccatagac | attgccccaa | tcttccccaa | attgactgat | atcacaatag | 43440 |
| attattgCGA | tgatcttgCG | gaactacctt | cgaccatctg | tgggaataacc | tctctcaact | 43500 |
| ccatcagcat | aacaaattgt | cccaacatca | aggagttacc | gaagaatata | agtaagctac | 43560 |
| aagcccttca | acttttgagg | ctatacgctt | gcccagagct | aaaatctctg | cctgtggaaa | 43620 |
| tctgtgaatt | gccaagacta | gtgtatgtcg | acatctctca | ctgtctcagc | ctaagttctc | 43680 |
| ttccggaaaa | gataggaaat | gtaaggacac | ttgagaaaat | cgacatgaga | gaatgtagct | 43740 |
| tatcgagcat | accaagttcc | gcagtttcat | tgacttccct | atgctatgta | acatgctata | 43800 |
| gagaggcttt | gtggatgtgg | aaagagggtg | agaaggcagt | tcccggactt | cgtattgaag | 43860 |
| ctactgaaaa | atggttcaac | atgacttggc | ccgacgagta | gtaggttctt | aattctccct | 43920 |
| ccgagctttt | gaaaatgcat | gttgatttat | tatttattaa | ctcgattagg | acctctgtat | 43980 |
| gatatacgat | tttattaata | catgttttgc | tcttataacg | tcaatatata | aattatatgt | 44040 |
| tgattttaag | tattaaaagt | ttctatttgg | aatctcaaag | atatgttttt | aaagattcac | 44100 |
| ttataagtaa | taacaaacaa | acaaaaacta | tttagcttaa | tggtaaaaag | catgagtcta | 44160 |
| tatagagaag | ggttcataat | ttaaaattag | tttgaatgtt | gtttgttatt | aagtgagata | 44220 |
| cattttaaaa | taatttagtg | agataaatat | atcgtttaata | ttatgcatgt | gctgattatt | 44280 |
| atatgaccaa | ttatatgacc | catcaatagt | tgtcaacatt | ttcttggtgg | atcgacgagg | 44340 |
| acgaacccaa | tgatttagaa | acagggatga | tatataacaa | gtaagtatag | tcgcaagtgt | 44400 |
| ccctgatcta | tagtcataca | aggtaaggcc | cactgctgaa | aagagaagtg | gcggctcggt | 44460 |
| ttaaaacaat | acaagtgaag | tagtgtatcg | agccctttgt | aacatgagat | tgtatagatc | 44520 |
| ccagtaagag | atggttagatt | tttaatctga | gataagaaac | tatctctatt | tggaaatcag | 44580 |
| agaatacttt | agcaggggag | agggatggga | gctacctcga | gggcatcaag | ttcttcaaaa | 44640 |
| ctggagaatc | atctttgatt | tggatatcag | aaagagaaga | tatatctatg | gttatagtgg | 44700 |
| ctgagacaaa | cgatttcttc | tccaagggat | cattgggact | gccttgGCCA | tctggactgc | 44760 |
| aagggtataaa | caggaagaaa | taaaaacaac | aaaaatatca | aggatatagc | actaccaata | 44820 |
| tgataaatgc | attgacaaaa | tcagtctttt | aagtacaaaa | atacttttgg | tgaagggaaa | 44880 |
| actaataaag | gaaacttgTG | ctattgaagc | ggacaaacag | ctaccacac | accattgtgg | 44940 |
| gggaattttg | agaaacagat | ttgagacttt | ttattgttga | tagtaacata | tacataatgc | 45000 |

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| | | | | | | |
|------------|------------|-------------|-------------|------------|-------------|-------|
| tctagcttct | tctttctatg | cgacgaatca | acaatatgtt | ccatgctatc | aacaatacaa | 45060 |
| ataatagcta | aaaccccaaa | aatcataaaa | ctaagcaaca | agctaattct | cttcagtttc | 45120 |
| agagcaagaa | tcaaaatgta | cagtatttaa | aagagctaga | cagactttta | cgtagaagaa | 45180 |
| aagaatcaat | ctccagagcc | ttccttagtc | atctctgctt | cctttttttg | catcttcacg | 45240 |
| taatgttggt | tatgcgattt | aacttggtat | ggattcctag | tctttacaaa | ttctctagat | 45300 |
| atgacctccc | aagctcctgg | ccctttcgac | tttagtcctt | caagaaagag | tctgaaaacg | 45360 |
| tacaccaaag | taaatggata | atcagatgag | agattcatca | tatgatctat | atttaccaaa | 45420 |
| ttagcaactt | taaacaatta | atgcctaagc | aaagccaaga | cctccatcta | acattcatca | 45480 |
| tcttaaatta | gcaagaagac | aacttactcg | tgttcttggg | ctgaccaacg | agttcccttc | 45540 |
| ttcgccacta | tcggcgctcg | tgaacgtggt | gagtactcgg | gcacaacatc | tctgccggat | 45600 |
| tcgataacag | caatatcttg | gagcagctta | tcgtagtggg | atttgatctc | atccaccgac | 45660 |
| gttctcattt | gtgcagcgat | aatctccagc | tttgccggcg | aatccgggac | ttgcacgagt | 45720 |
| gcaacctcga | aagctttggt | ctcctcccaa | gtccacttca | tcgtaccagc | cattgtagcc | 45780 |
| aagaaaagaa | agaaaaagaa | ttgagagaga | gagagagaaa | gatcgagcga | gtgtaacgac | 45840 |
| gtggagttga | atctgttacg | taacaagaat | ctttgcgatt | tatatcttta | tacagcaaca | 45900 |
| acacattaaa | ccaagaaatg | aaccaagatt | acatcttaat | taattcataa | accggacatt | 45960 |
| ccagagccct | taaccggaat | tatattagta | tactactata | tacatgttaa | taatagcctt | 46020 |
| gataaaataa | tagcaaaaca | gattagcctt | ttagtttttg | acgtcatgca | tgcacttggt | 46080 |
| ggtctgtgaa | aatctcgcgt | tttctcgtgg | aaaagtggat | cgcttacaaa | acctcaagat | 46140 |
| atcttttttt | ttttttcaac | ttgaacctca | aggtatctaa | gccttttaac | aaactctctt | 46200 |
| ctacgtttta | taatcaacag | aaaaatgtta | aaatataaaa | cttcaaatac | aaattaacaa | 46260 |
| ttatcaaact | agccaaatgt | tatatattcaa | acatcattgt | tcattgactt | tttacatggt | 46320 |
| ttcaaataat | tactttaata | caaaataaac | aaaatactag | tggcgtataa | aatatcataa | 46380 |
| aacacgagca | aatatcggag | gatactagaa | aacatataaa | gttgaaaata | aactaactcc | 46440 |
| gtgtataaag | aggaagaagt | tatcttatga | ctagaaaata | tatatatata | tatatatata | 46500 |
| taatattaaa | agtgagagca | cgggctcggag | caaacaataa | aaccctaatt | aacaatcaaa | 46560 |
| gccacctgat | agagatgaga | aacacattga | tgttgtcggg | ccttccagga | gatttggttag | 46620 |
| aggagatact | ttgtcgcgtt | cctgccacat | ctctgaagca | gttacgatct | acttgcaaac | 46680 |
| aatggaacaa | tttattcaac | aatgggagat | tcacaagaaa | acacttggat | aaagccccaa | 46740 |
| aggattttca | gaatctcatg | ttgagcgact | ctagggtatt | ttcgatgagt | gtcagtttcc | 46800 |
| atggaattcc | atctgtagag | gccacatgtg | aacttagcct | aatcgactct | ttttctagtt | 46860 |
| ttgaagataa | attcgagatt | tctcaagtct | ttcactgtga | cggcttattg | ttatgcaccg | 46920 |
| acgcagacaa | cactagaatc | gtgggtttgga | accctgtgtac | tggtaaaact | agggtggattg | 46980 |
| aaccacaata | tcgttgctac | tactatgctt | ttggatccta | cttggaacaa | tcctacggta | 47040 |

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| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-------|
| atagctacaa | aatattgagc | tatagtgggt | atggctacga | gaaccaagaa | ctcgcaatct | 47100 |
| atgagattaa | ctctcaatca | tggagggttc | ttgatgtcac | tcgtgactgc | atcctcgaaa | 47160 |
| gatatactga | ttacggtgtg | tctttgaagg | gacatactta | ctggtttgcg | tcagatgaga | 47220 |
| aagagaaaaa | tctcagcgta | tttctagtca | gttttgatta | tacaactgaa | agatttagac | 47280 |
| gtctacgtct | cccgtatcag | tgccctgatt | ataaactgc | gtctttatcc | gttgtagag | 47340 |
| aagagaaact | tgcggtgttg | ttacaacgcg | aaaatacatc | aaggacagag | atatgggtga | 47400 |
| caagtaggat | tggtgagacc | aaagtgggtg | cgtggagcat | ggtcttagca | gtggatttcc | 47460 |
| cgtccgaact | attcattttg | tctggcataa | gtttcttggg | cgatgcggag | aaaaaattcg | 47520 |
| tcgtatgttg | tgataattac | ttcggagagg | atgaatacga | taccaaaaac | ttggttcaca | 47580 |
| ttgttgagga | gaacaacaaa | gtgagagaag | ttaatttcgg | agtatccgaa | tcatcttggc | 47640 |
| catttttgtt | taattatggt | ccaagtgtga | ttcaaactcg | ggaaggtgta | ggaggcaaaa | 47700 |
| gaaagagagt | cgaataagta | agcttcacgc | aaacctgttt | tttttttttc | cttctcaccg | 47760 |
| ttatcttttg | tcatatctag | ttatgttttg | actaacaagt | gtttcataca | tacttggtgc | 47820 |
| attactttaa | gacagttttt | ttttttttaa | tagtttcgtg | atcaaaaaag | atctgcatta | 47880 |
| atgccgcctc | cagcaacatg | ggggtttcat | tcttcttttc | ttaacacata | caaagacaga | 47940 |
| aaaagcaatt | aacctaatga | agagaccaaa | caaacataat | gaagagctac | gtgtacgttc | 48000 |
| caagtctagt | tccccttcca | ggataagatg | gttgtttcgt | gtttctaagc | ttaattggta | 48060 |
| tgtgattgtt | catcttctgc | catcatatat | gatagtgcac | atgtattgaa | attgactttg | 48120 |
| gtttttgtga | tacaacctgg | acacgtttta | ggctttgtgc | cacagttgta | tcagtttcgg | 48180 |
| tcatgtttgt | ggtatcaaca | aaactaagat | acacacattc | caagtataca | tgacaaattt | 48240 |
| cactctatgc | tacaaataac | caaggtttgt | actaaaatcc | aaatacaaag | aatttggtatg | 48300 |
| aaccttacag | aagctatatg | gaacattcta | acttgatata | cttaatttga | ataaacaaaa | 48360 |
| aaagaagtca | ttatttagtt | attgaatact | ttttttccct | tgaccttaca | gattactgat | 48420 |
| taccatatac | atacatatat | gtgaattttt | gaagaagaca | acattgcatt | tgtaacatac | 48480 |
| attgcaaagt | agtaacaatg | accaacaaca | ttaacagatt | gtttaccaag | acttacagta | 48540 |
| aatgtacaat | gttcagtttg | tatagatagg | gtccttatat | atgctgagtc | aaagatgtca | 48600 |
| atcctaaagg | aaaggaagac | gagtaacggc | attccccac | aaacgctatc | atctgcttat | 48660 |
| ttcttttcgg | atgaagggtg | caacattttc | ttggtggatc | gacgagaaag | tatctgaagc | 48720 |
| cgcactttaa | ggtgagtgcc | gagattctac | cgcgagttag | taactctata | ctagctctaa | 48780 |
| ctctacacat | aaacataaca | cacaaactta | tacaaagata | aacgtaacac | acaaatatct | 48840 |
| gaacagagat | tcaattgtca | tacacataag | caaaaacagc | aagaattgtg | aaccagagtg | 48900 |
| atccacatgt | gtatttcaca | tatctgagtc | gatctcta | accctctcgt | ggtgtaccat | 48960 |
| atatttggat | taaactaaat | gatagcatat | ttttgtaaat | tatcttaaaa | ataaaaaattt | 49020 |
| aattactttt | tttttagtaaa | aatataagtc | tatgtaccgt | gattaatata | tctagttaat | 49080 |

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| | | | | | | |
|-------------|-------------|-------------|------------|-------------|-------------|-------|
| taacaaagtt | gataactatt | ccgttattat | tacactttgc | aatgtcgatc | acatcaataa | 49140 |
| acgcattgtc | cctttccctt | ttcgtatccg | ccggaaaaaa | ataacgtctt | tttttttttc | 49200 |
| ttccaatctc | tctgtctctc | tccccaattc | ccagattctc | atgtaagctc | tctccaagga | 49260 |
| tttgatttct | gtataatggt | tgcgaattga | gactaagagc | cctctcgatt | tcgatttttg | 49320 |
| ttcgtctgga | tcctttgcgt | taggtttttt | cttctcgat | aattagggct | tccgatttgt | 49380 |
| ttacccttag | ttcattttct | ctaaattttg | gtttttgatt | gatgggtttt | cttgatttag | 49440 |
| caatttttaa | gatttacttg | aaagattccg | taattttggt | ctgattcgga | ttctttgatc | 49500 |
| tgtgctcact | agctctctac | caaagcagct | tccttttctg | atccctagtg | ttcaattatg | 49560 |
| tgaacagatt | gtttacttta | gcttctcttc | cttttcattc | tagttttgca | gagatttttag | 49620 |
| gaggaacatg | attgtttgaa | ttgggagaga | cattggttcg | tgtaaaatgc | gggtgcttgg | 49680 |
| tttgagctca | agcttatgct | ctggtgagga | taaggaagaa | gaagagatta | atggagaagg | 49740 |
| ctctctcacg | cctgtttatc | tcaacgtcta | tgatctaact | cctgtcaaca | attatctcta | 49800 |
| ttggttcggc | cttgcatat | ttcactctgg | cattgagggt | aattgtggct | tcttctctat | 49860 |
| tacttacttg | acctaactaa | atttttcttt | gtcattgctt | tctatttgct | ttcatccata | 49920 |
| tctggtttat | catgttatca | aagtacttct | agccttgaat | aggaacaatg | atattcctca | 49980 |
| attgttctcc | acaagttgtg | atttattatt | cattaggtga | aaatggtggt | tattatatta | 50040 |
| gctatggaat | acattatttag | aaggaaaaag | tggaacaagt | tttgaggaat | ctagaatgga | 50100 |
| atgctttttc | aaatcctgcc | ttattgtctg | aagcattctc | tttcaataat | tagaacttgc | 50160 |
| ctgatgagtt | atataactgt | acttctgctg | aaactgttat | tgttgctaaa | tgttcatcta | 50220 |
| atgtggagtt | ttttttcact | ttgccatgtg | tactactagc | tcatggtttc | gaatatggat | 50280 |
| atggagctca | tgagtattcg | agcagtgggg | tatttgaggt | tgaacctagg | agctgtccag | 50340 |
| gtttcatctt | taggcgctca | gttttggttg | gaaccaccag | catgtctcgc | tctgatttcc | 50400 |
| gctccttcat | ggagaagctt | tcgagaaagt | atcatgggga | cacataccat | ttgattgcca | 50460 |
| aaaactgtaa | ccatttcact | gaagaagtat | gcttgcaggt | aacaggaaaag | cctattcctg | 50520 |
| gatggattaa | taggatggct | cgagttggta | agataacttt | cttattccag | cttattattt | 50580 |
| ctttactggt | tcttggtggt | tggcataatc | ttttacatgg | ttgcttggtc | ttgaattttt | 50640 |
| tcaggttcgt | tctgtaactg | tatccttcca | gaaagcatac | agctctcatc | ggttaatcat | 50700 |
| cctgaagccc | tcgagttctc | tggttaagtta | atcatgttcg | ctcttcttca | cctaaaaaaa | 50760 |
| actgcaatag | gcatttggtg | ttcggataaa | ccagttgtgt | ttcatctcca | ttgtagatga | 50820 |
| taacgatgga | tcagaagaat | cagttgcatc | ttctgtgtca | tacgaaacag | atggagaagg | 50880 |
| atcggatcat | catctcataa | cagcaccaaa | cagcgatatt | gcgtatctac | aggacagacc | 50940 |
| agtgaagactt | gcccgtgagc | tcctccaaga | accaaccgat | gatacatctc | cgcagtactt | 51000 |
| gttgaagcgg | tcctgatcat | cacaagcatc | aacaacttgt | gttggtctgta | aacagtgagg | 51060 |
| caatgggtcc | atatattgag | tattcctttg | atctataagt | gtaaaaaaag | atttaagatt | 51120 |

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| | | | | | | |
|------------|------------|-------------|-------------|------------|-------------|-------|
| taaatcagaa | cccatctgag | atgttggatt | gtagtgtaag | atttagagac | aaatgggtgtg | 51180 |
| acaaaaattg | tgccttcttc | ttctcccaat | gtgagttcac | atttcagtgt | cataattcgt | 51240 |
| aagatttgcg | agactaataa | ttagttttga | tttttctatt | caatttacag | acagttaatg | 51300 |
| gttatggatt | ttcagacatt | ctttgttctt | cggttcactc | ttcgcagcta | tattttattg | 51360 |
| gaggcggtaa | cataacttat | tgggctagcc | tgggaaaata | attatacatt | gggcccatta | 51420 |
| ttttaataa | ccttcacg | cccagtttgt | gtgtaaacag | ttatgatcag | atccagaccg | 51480 |
| tccaaaaata | gggaggggtg | actctcgaac | acgatgctct | gaagactgaa | aaaggcgtaa | 51540 |
| acttttttca | cctggctagg | gttcttggtc | gtcgttaact | ggtacgtttc | aatgggtctct | 51600 |
| ctgtactatc | atctctgcga | aatgggtctt | ctctttggag | gctaatcgac | gttgtgctta | 51660 |
| atctaattgc | tcttttaggt | tgttttagagg | aatatatcac | aggttttcaa | ttagattgat | 51720 |
| ctgcttagtt | ttgtaatcag | tgtaggttac | cagtgaatca | tgaacttccg | ttagggttat | 51780 |
| aagctctctg | tttcttttcc | tgacttatca | atgtcactaa | tttagatttg | atgcgtagtt | 51840 |
| tagcttttga | agatcaggga | actgaatata | tctgggttaa | ggaagctttg | aattttctgc | 51900 |
| ttgccatgga | cattcgactt | atcagtattt | ttgtacattt | tggttaatgt | ttatcgaatt | 51960 |
| ggtttgatca | gtctgtggat | tttaacttta | caagttaaga | tgctattctt | ttagggtctag | 52020 |
| ttgataggtc | atggatttgt | tgttatatgg | agtctagaca | ttttgccact | gcttttagtgt | 52080 |
| tcttagcttc | taagggtttc | gttgatatat | tgtactgggt | ttatcgtttc | caggcatcta | 52140 |
| gtatggcttt | ctgcactaaa | cttggcggtc | actggaaaca | aggggtaaat | gttccagtgt | 52200 |
| catcaatgct | cggtttctct | cgctacatgt | ccacaaaact | ttatattggt | ggtaagtata | 52260 |
| acttcctatc | agattgtttc | attttcttac | tcttcgcagc | tgtggatggt | ttctttctct | 52320 |
| tgtatagcag | tttaaatggt | ttggtcactt | ttataatttt | ggtcccaggc | ctgtcccctg | 52380 |
| gaactgacga | gcactccttg | aaggacgctt | tctctagctt | caatggagtg | acagagggta | 52440 |
| tgccctggat | cttactatct | ttcttttcac | tgttctacaa | tagaacgtgg | ttttgtttgt | 52500 |
| gctagttaat | gtataaacca | ttcaaggatg | tgtggttgga | ttgaagccgt | cctattcatc | 52560 |
| attataccat | gaatgattga | tggatgatgac | catttttagt | atggatattg | tgttttgctt | 52620 |
| tggtttgcct | cgggacttaa | ctctcttggt | gagtacagtt | aatatattca | gtcatttcac | 52680 |
| tacttgcgta | tttaaccaga | accttgccgt | atcttttttc | tgtgcagcaa | gagtcacgac | 52740 |
| aaacaaagtg | accgggaggt | ctagagggtta | tggatttggt | aacttcataa | gcgaggattc | 52800 |
| tgccaactct | gctatttcag | caatgaatgg | acagggttaga | aatctaaaga | atcattgatc | 52860 |
| tatctattta | cctatcatgt | caattgctgt | gttgatgggt | taatcttccc | cttttggttg | 52920 |
| ttttgggatg | gtgaaatagg | agctgaatgg | gtttaacata | agtgtgaacg | ttgcaaaaga | 52980 |
| ttggccaagt | ttgccattgt | ctttggatga | gagtatagaa | gaagctgaga | agaaagaaaa | 53040 |
| taagatgatg | agccgatctg | tatggaaaga | tccattcggt | gatgcgttcc | tgatgaagaa | 53100 |
| gaagaatgca | gctctgaaca | ggaaaatatg | gtcaaggaga | tgcacgattc | ttcccagagta | 53160 |

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| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-------|
| tggtgattcg | gcggtgagaa | tctacaacgg | caaaactcat | gtgcgttgta | agatcacaga | 53220 |
| ggggaaagtt | gggcataaat | tcggagagtt | tgcgtttaca | agaaaagtga | agaagcatgc | 53280 |
| taaagcaaag | tagcatcttt | gagaatgaat | tggtcagctg | cttgaaagga | ttgtgttgaa | 53340 |
| aagccaaaaa | cgaatcaaat | caataaattc | tcaataggta | aaactcatta | gctcacatga | 53400 |
| tcatgtagac | gaatattgag | ctttagaaa | tctttagttt | tcttgtcgat | ttcgtatttt | 53460 |
| tggaccacaa | aagtgccaat | gttatttttg | aattcgatta | acaaatatca | attgtggagc | 53520 |
| ttcaataacc | aaacgaacga | tgcacctcca | tagtgcttgt | tcaagaactt | gtattgttta | 53580 |
| tatacagaag | caagccaatg | gggccatggt | gagtattcta | ttcgatctaa | agatgtaaaa | 53640 |
| gaagattgaa | aatgaaatga | gaatccagtt | taagggtgtg | ttggatggta | ctagtgatat | 53700 |
| tagaggcaaa | tggtgtgaac | ttgttgacaa | aattgtgtct | tcttctctct | ttgagttcac | 53760 |
| atttcagtgt | cataattcgt | aagatttgcg | agactaataa | ttagtacaag | aatttattaa | 53820 |
| tcaatattcg | tcgttactgg | ttatggattt | gatatgttta | ctcagaaact | gtcgtctagg | 53880 |
| cttgaaggga | tttattattc | agttcacatt | ttcatgcaat | ggagccctca | caagacctgt | 53940 |
| aataagacga | gttctatttg | taagtttttt | atgatttata | aaaagctcag | aaattcattt | 54000 |
| atagtctata | gcttttatgg | tttacatctt | gagctgaaaa | attaaaactt | ttgcttgtag | 54060 |
| atattataac | ttacataagc | tatgaattat | atatataaat | ttgtatttcg | gagctaaaaa | 54120 |
| tgttataatt | ttattcatag | atttcatact | tctatgttgc | ttacctaaaa | tgttaattca | 54180 |
| accatatatt | ttgagtgtta | agggggtgta | aaagcatatg | gaattatttg | tgttaaaatg | 54240 |
| acaaatcctc | tgttattcaa | tcatcaatat | taaaaagttt | tataaaaatc | cattgttatt | 54300 |
| gaaataatga | ttccaaaaaa | gtaccatcaa | atccagtatt | atggaaatat | tataaccact | 54360 |
| ggatttttga | atgactttta | ggtggtttat | aagattttta | catgttttgt | tttttggaa | 54420 |
| ttggaagaac | tttagaacia | atcataacat | ttaatctaaa | atcacccaaa | aattcatcta | 54480 |
| aaaactcatt | aaaattcgaa | tcattcaaac | tatatggttg | gataacatag | aatttgtcat | 54540 |
| ttcaacacca | atcattttca | tgtgatttat | tgattatatt | ttttatcata | gagagagcaa | 54600 |
| aaatctctgt | caatggcaag | taggtaccaa | gtagtggcat | gagagagtga | tgtctggatt | 54660 |
| tattgatttc | tttggtagct | tatacttcca | tatgtttcct | tatttaattt | ttcattccaa | 54720 |
| atatgggaca | aagttataac | aaatagtatt | cgatatcaaa | cgtcaaaaca | tgtactccca | 54780 |
| aatatatttt | attggaatat | agttttggag | atattttttac | ctggggggag | atggaaccaa | 54840 |
| aataagatct | agaaatgtga | ttggctaacg | aaagaagcac | aataagttaa | caagtgcacg | 54900 |
| tgacaattta | tccctcgaca | acaacacaca | ttcacatata | tctttttatt | ttattatttt | 54960 |
| tctgtgtgtc | tttaaagttt | acagcacaag | tagttttcta | atcttataat | caattttcat | 55020 |
| tgataaacag | aaatttaaaa | tatttaaata | gacaaataaa | tgatcaaata | tatattttcta | 55080 |
| tacaagagtt | aattcacaaa | aatttgttgt | gaaacaaact | ctttctatat | ttctatacaa | 55140 |
| gagttaacat | atttctatat | aagttattgt | aaagatcaaa | atatgaaaat | tatgggtataa | 55200 |

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| | | | | | | |
|------------|------------|-------------|------------|-------------|-------------|-------|
| atgcatagac | acatatatac | gtgccctatt | aaaagaggca | gcgagaagat | aatataggag | 55260 |
| gaagaggaag | aagaagaaga | tggtgaagaa | gagagttaat | gcaactgcaa | gaagatagta | 55320 |
| actaatcagc | accgtccatt | tttgtcatct | aattctttct | tacttggccg | caacttccaa | 55380 |
| ccacatcaca | cactctttct | attccccttat | atattcccat | ctcaaaagtt | cttgagagaca | 55440 |
| cataaacatt | aaaaaaagaa | aaagaaaaaa | actataaaca | taaacgccaa | tcgcaacttt | 55500 |
| cttgtctttc | aatgggagag | aaagggttga | agcggctctg | tgttgcggtg | gtggttgcac | 55560 |
| tactagccat | ggttcatgtc | tctgtttcag | ttccgttcat | aatgcttcat | gggatctcag | 55620 |
| ctcaatgttc | taatgctagg | gatgctaact | tcacacagct | tctcactaac | ctctctggct | 55680 |
| ctcctggctt | ttgcttgtaa | gtcaatccac | aaaatagttt | atgcgttttg | ataacaaaaa | 55740 |
| gatcgggaca | tgtagaagaa | gagttatgta | ttcttgctat | ctataagacg | ataacgtcca | 55800 |
| aagtggctca | actatgttga | tggatttggt | ctaataatc | cagagaaatt | ggaaatggag | 55860 |
| ttgccgattc | atggttaatg | ccgcttacac | gacaagcgga | aatagcgtgt | gagaagggtga | 55920 |
| agcaaataaa | agagttgagt | caaggataca | acattgttgg | aagatctcag | gttcttgata | 55980 |
| cactttcttg | aaaatcctaa | aataggttct | tgatcattat | ttacatagtg | tttaagtttc | 56040 |
| atggatgttg | attaataatg | gaacagggga | acctagtggc | tcgaggcttg | atcgagtctt | 56100 |
| gtgacgggtg | ccctccggtt | tacaactata | tatccttggc | cggctctcat | gctggcatct | 56160 |
| cctctgttcc | tatgtgtggt | gtaagttttt | tttataaatc | ttttttctct | aaatattttt | 56220 |
| tctatgattt | taatttaatc | aatcaatcac | agtaacaaca | ttgtcttttt | cttggttaaag | 56280 |
| tctggtttat | tctgtaagtt | agcagatgag | ctaatacagg | gagatatcta | tagcgacttc | 56340 |
| attcaagtat | aaatctcttt | ctgtcttttt | taggattaaa | tcctcagtag | ttacaaatta | 56400 |
| attaacatat | atctttaata | accctgcagg | atcatcttgc | tcctagtggg | tatctcaaaa | 56460 |
| ttcctactgt | atgtctactc | accaaataata | ttttgatgat | aaaaaaacta | cttcaaaatt | 56520 |
| tgagatatca | caaaatcttt | gtttttgatt | tatcaggata | tgacaaagta | cttggaagc | 56580 |
| tctaagtatt | tacctaagct | taacaatgag | ataccagacc | aaagaaacca | aacttacaaa | 56640 |
| gaccgtttca | ccagtttaca | taacttggtt | cttatcaagg | tttggctctc | taaaaacat | 56700 |
| ctagactttt | caattatctt | ttgattcctc | tcttgatgat | tcggtttttg | tttgttttac | 56760 |
| agtttcaggg | cgacaagggt | atagttccaa | aagattcatc | ttgggttcggg | ttttatccgg | 56820 |
| atggtgaatt | cgaacctctt | ctctctgctc | aacagacaaa | gctctataca | gaggattgga | 56880 |
| tcggcttgaa | aacattggat | gatgcgggaa | aagtgaagtt | tgtgagtgtg | gccggtgaac | 56940 |
| atatcagaat | ggtagatgaa | gatgtcgtca | aacacgttgt | accttatctc | caggaccaac | 57000 |
| cgtcttcggg | gcaaagcttc | aaccgcaaga | cgaagcagcc | cttgcatgct | taaaaatagc | 57060 |
| aaataccaca | atagttatac | ttattcatgc | aatatatgtc | gaaaaagctt | agtgatgatt | 57120 |
| ttgtagaatc | cttattctta | tagaaatata | tacatactta | tctgaaaaat | cgaattaatc | 57180 |
| agtagagaaa | cgactcatga | gatcttcatc | accacatttg | tatcaaggct | tcaatgggtt | 57240 |

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| | | | | | | |
|-------------|-------------|------------|-------------|------------|-------------|-------|
| tctcaacatg | agaaacttcc | aatctcattt | ttttttgttt | ttgttggtgt | agaagtctcc | 57300 |
| caaaatgact | cgaagttttt | tccttttttg | ttcttttagtc | tcaccaaatt | acatattatt | 57360 |
| tttaaataat | ctaacaattc | tccaaatatc | ctaaaaacta | attcatatct | ctccaaatct | 57420 |
| aaaatttcct | aaattccacc | aaattttcta | aaatcatgaa | tccaatacac | tccctgattc | 57480 |
| aaatctctcc | aaatctaaaa | tttcctaagt | tccaccagat | aatgaatcca | atacacaccc | 57540 |
| ctaagagagg | caacgcggag | atgtcattag | aggaggaact | aggaagcaga | gcgttaatgc | 57600 |
| aaaatgttac | caaaaacggt | aatgcaagat | atcaactgat | cagcaccgtc | catttcaaac | 57660 |
| tgagaatgta | aaaaccaatc | acaatcgtag | attttttcat | ctagtctctc | gttcttggtc | 57720 |
| acaacgtcca | accacatgac | gctctttcta | ctcactttat | atattcccat | ctcaaaagtt | 57780 |
| cttgagagaca | caaaatatca | taaacatata | aacgccaatt | agaacttttt | tacttggtgc | 57840 |
| ggtttacaat | ggagaaaggt | ttgaagcgat | cttggtttat | ggtggtggtt | gcattcttag | 57900 |
| ccaaggttga | tatctcagtt | tcagttccgt | tcataatgct | tcacggaatc | gcattctcaat | 57960 |
| gttctgatga | tacaaatgct | aacttcacac | agcttctcac | taacctctct | ggctctcctg | 58020 |
| gcttttgctt | gtaagtcaat | ccacaaaata | gtttattcgt | tttgataacc | gaaagatcgg | 58080 |
| gccatgtaga | agagttgtgt | attcttgcta | tataagacgt | gcaaagtgac | tacttatttt | 58140 |
| tgttttatat | agcatgaaca | agatgatgta | tttggtttga | tctgattctt | gttttttttt | 58200 |
| tggtaatgga | atccagagaa | attggaaatg | gagtaataaa | ttcaatgttc | ttgccactta | 58260 |
| cacaacaagc | agaaatagca | tgtgagaatg | tgaaggaaat | gaaagagttg | agtcaaggat | 58320 |
| acaacattgt | tggaagatct | caggttcttg | atacactttc | ttgaaaaccc | taaaataggt | 58380 |
| tttttgatca | ctataacacg | tttcagtttc | atggatgttt | gatgaatgat | ggaacagggg | 58440 |
| aacctagtgg | ctcgaggctt | gatcgagttc | tgcgacggtg | gacctcctgt | tttcaactat | 58500 |
| atattccttag | ctggctctca | tgctggcatt | tcttctcttc | ctaggggtct | ttgtgggtgta | 58560 |
| agcttttttt | atttttcttc | aaattatcta | aaacttttat | ctgtaattta | attttaatca | 58620 |
| atcaaggtaa | caacaacgat | tgttttgttt | tgtttctttt | cttttaagtt | aacgtccgat | 58680 |
| ccagcatgta | agaaatttaa | tgagttgatc | aagggagctc | tctatagcga | gaccattcaa | 58740 |
| gtatatatat | ctctttctct | atatatatca | tgattaaaga | ctcaattaga | aaataataaa | 58800 |
| aaatcttcaa | tgactctgca | ggatcatctt | gttcctagt | gttactacaa | aatcccta | 58860 |
| gtaagtccat | tcaccatttg | tttataagaa | aacttgcaaa | atcaacaaat | aagtgattga | 58920 |
| tgatcaaaac | aacaacataa | agttttaaca | aaatctttgt | ttttctttta | tttattctca | 58980 |
| ggatatgaaa | cagtacttgg | aaagatctaa | gtatctacct | aagcttaaca | acgagatacc | 59040 |
| aaaccaaaaga | aaccaaaactt | acaaagaccg | tttcaccagt | ttacacaacc | tggttcttgt | 59100 |
| caaggtttgg | tctcatcaaa | accatctaga | cttttcaact | atcttctcat | tcctttcttg | 59160 |
| atgactctgt | tttttttttt | tacagtttca | ggacgatgag | gttattactc | caaagtattc | 59220 |
| aacttggttt | gggtttttatc | cggatggtga | gttcgaaact | cttctctctg | ctaaccagac | 59280 |

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| | | | | | | |
|------------|-------------|-------------|------------|-------------|------------|-------|
| aaagctctat | acagaggatt | ggatcgggtct | gaaaacattg | gatgatgctg | gaaaagtga | 59340 |
| gtttgtgagt | gtacccggtg | gacatgtcag | aatggcagaa | gaagatgtcg | tcaaatacgt | 59400 |
| tgtaccttat | ctccagaacc | aacagcctgc | cgcacaaagc | ttcaaccgca | agaccaagga | 59460 |
| gcccttgc | ccttaaaaca | gagcaaaaac | ctcaattggt | atacttatac | ttagcaaaaa | 59520 |
| aaaattgtta | tacttgttca | tgcaatatcg | aaaaagccta | gtgatgactt | tgtagaacaa | 59580 |
| gaatccttat | tattgatata | ttgatata | catacctata | tgaattgtcg | aattaatccg | 59640 |
| ttgagaaacg | acgaatgagg | tcttcatcac | cagttttctt | caagacttca | atgattatct | 59700 |
| caacatgaga | aacttccaac | taatctcatt | ttcttatcaa | gcacggttt | cacaagctta | 59760 |
| tagctagcag | cttcccaaga | aagcccat | ataaattaac | tttgccaat | cttttgcaac | 59820 |
| atcttcaata | tacataaact | aaccaatata | atgcatcttc | tcgatgcttg | ttgaagcagt | 59880 |
| attgatcaga | gtcatcaata | acttatattg | tctgcttaca | gaagtgagtc | aatgtgtcca | 59940 |
| ttgtaagtat | tatttctatc | taaaaaatat | ttagagattt | tattctttac | agaaggagca | 60000 |
| aatttatttg | tatatttagt | tgtcaaatta | aaatttagtc | tatacattat | acaaggcgca | 60060 |
| agtttgtgga | tttaagaatt | atataaaaac | ttgaaatata | tagtttttat | gcattctcct | 60120 |
| cttgtgta | acataaacca | aatatgagat | aggttaatct | gtatttcaga | taatattaaa | 60180 |
| ttccaaacaa | tatttttact | tggtataaga | aggcaattaa | tatctctctg | ttaatggcaa | 60240 |
| gtggtaccaa | gtagtattaa | actattaatg | caatggaaga | gtactgttgg | aaattataat | 60300 |
| cctctatcac | acattcaaac | agatctcctg | aaatcttctc | ttccaaactt | gtacttctct | 60360 |
| gatccaaatg | taggctccaa | aatatagaca | ttaccattt | actaagtcca | caactccttt | 60420 |
| cttgtctcct | tcaaaaatga | ctcttgtgta | accatcatat | gactccgaca | gttcggcatt | 60480 |
| gccatgatga | gagcttaaaa | attcaccttc | ctgagcattt | caagtcttca | ctcccttagc | 60540 |
| ttgacctgaa | ccaagataaa | atgcctttgt | cgtcccgtaa | tatccatcct | gctttggacg | 60600 |
| gcatcatagt | tacattcgat | ccatcctatt | tacaatgtta | ttttagtatt | aaaaacatga | 60660 |
| caataaattt | gttggttaaac | atattcaaat | acaatatgat | tggattttata | agtaattgta | 60720 |
| atatgaaatg | tccttagtaa | tatgttaaaa | aatacataga | tacacacacg | tactaaaaga | 60780 |
| ggcaacgcgg | gagatgtcat | tagaggaaga | actaggaagc | agagcggttca | tgcaaaatgc | 60840 |
| tacaaaaaac | gttaatgcaa | tatctcaact | aatcagcaca | gtccatttca | tactgagaat | 60900 |
| gtaaaaacca | atcagcatcg | tccatttttt | catctaatta | tttgtttaact | cttaattggc | 60960 |
| cacaacttcc | aaccacatga | cgtcttttct | attcccttta | tatattccca | tctcaaatgt | 61020 |
| tcttgagac | acaaaatatc | ataaacatat | aaacataaac | gccaatcgca | gcttttgtac | 61080 |
| ttttggcggt | ttacaatgga | gaaagggttg | acgatgtctt | gtgttttggt | ggtggttgca | 61140 |
| ttcttagcca | tggttcatgt | ctctgtttca | gttccgttcg | tagtgtttcc | tgaaatcgga | 61200 |
| acacaatggt | ctgatgctcc | aaatgctaac | ttcacacagc | ttctcagtaa | cctctctagc | 61260 |
| tcacctggct | tttgcattga | agtcaatcca | caactcttct | gtccttttga | taatccaaag | 61320 |

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| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| attatggcta | tttatgtggt | cttgatactt | aagacgtgca | aagtgactat | ttatgatgat | 61380 |
| gtctttgggt | tgatctgatt | cttgtttttt | ttttttggta | tggaatccag | agaaattggc | 61440 |
| gagggaaatc | caataggcgc | ttcatgggta | ataccactta | cacaacaagc | ggaagtagcg | 61500 |
| tgtgataagg | tgacgcagat | ggaagagttg | agtcaaggat | acaacattgt | tggaagagct | 61560 |
| caggttcttg | aaaaccctaa | aatcggggtt | tgatcattat | atgtacatat | tgtttaagtt | 61620 |
| tcatggatgt | tgatgaatga | tggaacaggg | gagcttagtg | gctcgaggct | taatcgagtt | 61680 |
| ctgcgaaggt | gggcctcctg | ttcacaaacta | tatatccttg | gctggtcctc | atgctggcac | 61740 |
| cgccgatctt | cttcgggtgta | atactgtaag | ctttttttatt | tcctctaaat | atcaaataata | 61800 |
| tatctttgat | ttcatttttta | atcaatcaat | cacagtcaca | acattgtatt | tttctgttgt | 61860 |
| ttttgggttt | ccttggttcaa | gtctggccta | atttgtgaca | tagcaaattg | gataggcaag | 61920 |
| gaaaatccct | acagcgactt | tgttcaagta | ttgatctctt | tctctctctt | tacatcatat | 61980 |
| gattaagtcg | tcaattagaa | aattaattaa | aatctttgaa | tgacttttgc | aggataatct | 62040 |
| tgctcctagt | ggttatttca | aaaaccctaa | agtatgtctc | tattcaccat | agttttattag | 62100 |
| gaaacttgca | aaatcaacaa | attagtatct | acctaagctt | aacattattt | tttctgtttc | 62160 |
| acagaatgtg | acaggggtacc | tgaaagactg | tcagtatcta | cctaagctta | acaatgagag | 62220 |
| accatacgaa | agaaacacaa | cttacaaaga | ccgtttcgca | agtttacaga | acctgggttt | 62280 |
| tgctcctgggt | cgcttctctt | ctcttaacta | ttatagttgt | ctactatctt | ctgattcctc | 62340 |
| tcgtgatgat | ttgtttttct | tttatacagt | ttgagaacga | tacggttatt | gttccaaaag | 62400 |
| agtcattcttg | gttcgggttt | tatccggatg | gtgacttaac | acatgttctc | cctgttcaag | 62460 |
| agacaaagct | ctatatagaa | gattggatag | gtctgaaagc | attggttggt | gctggaaaag | 62520 |
| tgcagtttgt | gaatgtaacc | ggtgaccact | taataatggc | ggacgaagat | ctcgtcaaat | 62580 |
| acgtcgtacc | tcttctccag | gatcaacagt | ctgccccacc | aagactcaac | cgcaagacca | 62640 |
| aggagccctt | gcattccttaa | aatgagcaaa | tagttcaatc | gctataactaa | ttcatccaat | 62700 |
| gtcgaataag | ctcagtgatg | attgtgtgac | acaataatcc | ttcttcttat | atgaataata | 62760 |
| aaagcatact | atctgaataa | attgaattaa | tcaatagaga | aacgactcat | gagatcttca | 62820 |
| tcaccagttt | tcttcaaggc | ttcaatgatt | ttctcaacat | gagaaacttt | caatctcatt | 62880 |
| ttcttgtcaa | gcattgattt | cgcaagctta | gcagcttccc | aagaattccc | ctgttggcag | 62940 |
| agaccgagca | aaagaaccgc | atgtatatcc | gagtctattg | ttgatttcac | atccttcttc | 63000 |
| tcgatttctt | gatacagaag | gaaacaatcg | agataccttt | ccaacaaaca | taactccctg | 63060 |
| aaaacatgac | tgacgcgaag | accatcaggt | ctaaccctgc | ggaccaacat | cagacggaaa | 63120 |
| atcttttcag | cctcttccca | tcttttcata | cggattagcg | acacagtagc | cgaactaaaa | 63180 |
| cactcagaaa | gagaaacacc | gcctagtttc | accaacttat | caatcaactt | agaaagagcc | 63240 |
| ttcacatcct | catcattctc | caaaaccccc | tgaatcaaaa | cacaagcagt | aacacgattc | 63300 |
| ggcatgcacc | ctcgggtttcc | cattctatcc | aataccaaca | acgcctcttc | aaccctcctc | 63360 |

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| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-------|
| ttctcacaaa | acgcttgaat | caccaaagta | taagtaaccg | cattcggact | aatcaatcca | 63420 |
| ccaccgtctt | ctttctccat | ctccgccaac | aactctaacg | ctctctccat | atcaccagac | 63480 |
| ttgcaaactc | cttcaagaat | cctagaatac | gtcacactgt | taagcacgca | atcatgctta | 63540 |
| ctcatctcct | tagctaacct | ccaagcgtca | tcaatcttac | ccgcattgca | atacccattg | 63600 |
| atcatcgacg | tataagtaat | cacatctgga | taaagaccaa | cacaatccat | ctctttttatc | 63660 |
| aacatatcag | ctatatccaa | atctccctta | tcagcaaaca | acctaatac | caaattatac | 63720 |
| gcaacagtgt | ctgcacatac | attaaattca | ggaaacttcc | ttaataacca | caatgcctca | 63780 |
| tcagcgagat | tcgcttgatt | acacagagtc | agaacaatcc | tcctcgtctt | aacattaaca | 63840 |
| aagcattctt | ctttccgata | agattcaata | acgtatttga | tcaaactctg | ctttgctcta | 63900 |
| atcttaagaa | tgtcgcaagc | tttggtatac | atgtaagcac | tgtgtctatg | gctggataga | 63960 |
| gttcctgccc | atatgaaaaa | cctaagaccc | gattgaaatt | gatttggatc | gcatcttctt | 64020 |
| agtacctcgt | tgatacaaga | ggagtctaata | tgtacattag | ccgaagctaa | ttctttctcg | 64080 |
| agattacttg | tgcctccttg | aagctggccg | tataatctct | cggcggctga | gacagttggt | 64140 |
| aaaaaacgta | aagctgagat | ttttgagggc | tgagatcgta | atgaaggaga | taccagacga | 64200 |
| gaaatcaatg | aatttgcat | ctgggtcgct | ataagtgtag | cgattgatga | aagatttcgt | 64260 |
| taagaaaatc | gtaagaatga | gacttgagt | agagaaatag | gagagtttcg | ctttcgcaga | 64320 |
| tggaacgac | gacgaaagac | taaacgtatg | ggccgacata | ataatgtagc | ccattaagac | 64380 |
| ccaataagaa | ttgctcatac | atctttgtca | gatctgaatc | ggaaaagcaa | ttgaagtcag | 64440 |
| attaggtcac | aagatttcat | gatttcgtta | agaacttcaa | ataagctaca | cttctttttc | 64500 |
| ttttcttttt | tgagcaactg | catataagct | acacttatac | catgctcaga | aactgtgtat | 64560 |
| ttatctagaa | gacgtttgtg | aatttttggg | ttaatttaga | actcttgtaa | gatatcaaaa | 64620 |
| aaagatagtt | tcataatttt | tgggttaatat | agcaagtttg | taactaattt | ttgctaattt | 64680 |
| aaatcttttt | aaggttgcat | catacatagg | actagttcat | gagaaggcca | atcatccaaa | 64740 |
| attacaatga | ccccacacag | atagactata | taacgataac | gaaaaatacc | aaaacaccct | 64800 |
| tttcccacca | ctaaaataaa | aaatcacgat | cgtggacgca | aggcttcaaa | attcagccca | 64860 |
| tgagccacct | gaccagcaca | agcaaccac | ggattgatag | aaacgggcct | gtgattgtgg | 64920 |
| tgatggttcg | atgatgatgg | gccaccac | cgctcgcacg | aaggacacat | gatgagtgt | 64980 |
| gttggtggag | tcctctgacc | gtagaattgt | ggagacagct | tgagagtctg | aagctccata | 65040 |
| gcctctttct | gaagtctccg | gttctcttcc | gttagcttct | ctacgcaccg | tttcaagtat | 65100 |
| tcgcaatcta | cctccgtttg | ctttaacttg | gttctgtaaa | accaaatacg | accttgtaag | 65160 |
| taaaaacttc | tacacaaggg | ggtataaatg | taattttaca | attttgggtg | taagacaaga | 65220 |
| aaatctcacc | tagctcttct | gttttggaac | cacacttcca | cttgtcttgc | cgtcaagttc | 65280 |
| agcttcttag | ccaaagctag | cttctgtttc | tgtaaattat | gataataacc | ttgggtattt | 65340 |
| caaagtaatt | acgataatta | tcatttgatt | cctctgactt | ttttacactt | acgggattga | 65400 |

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| | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|-------|
| gagtgttg | ttctttgaaa | gtctcttcga | gaaaagcaga | ctgatctttt | gataacctga | 65460 |
| gcttcttcct | cgacgtttcg | ccccgtctt | cttcttcac | tgaggttcca | cgtgagtacc | 65520 |
| ctcgatccgg | agtgatctcg | tcgtgatcgt | cgccggagcc | aacgccggtt | ccggagattc | 65580 |
| cttctctctc | acttctcttc | ccgctaattg | tgcttgagat | cgtactgttt | ggtgacgaaa | 65640 |
| ctcctgtgtc | ttcctcgcag | ttaaccgttg | atggaaaact | gttcacgtct | atcttgcgaa | 65700 |
| gatctgcaaa | gagcaatcaa | attttaagtt | tgagatctgt | ttttatttta | cttggaacg | 65760 |
| aagaaaagtc | tcatacttca | attctgaaat | ctgttctgtt | tctttaaaaa | aaaaaacaga | 65820 |
| gaagatttaa | gtatatacct | gatgtaggat | cgaatgtttg | gttccatggg | agtctctgga | 65880 |
| gattgtttga | taatgaagag | ttaggattca | gattcatctg | aagaggattg | tgattttgtg | 65940 |
| aaaaccctaa | gcttaggctc | aaacctagat | cttctttgcc | catcatcatg | ttttttattt | 66000 |
| cctttcacia | gaactcaaca | gtttcaggaa | ttatatttcc | ttatgagaat | agagaaagaa | 66060 |
| agaacacgaa | atgggtttgtt | ctttctgaga | tagagatgag | aaatgggtgtt | tgtttcaact | 66120 |
| cgaagttagg | actctttgtg | gaagagaaat | agagagagat | gtgagatggg | aatgaagaag | 66180 |
| agaggggatt | aatatagtac | tttgaatgat | gagagatttt | gtcagggtggc | taattacaat | 66240 |
| ccatcattat | tgtttctttg | tttttggtg | tgtattactt | tatctccaac | ttgtgtcccc | 66300 |
| cctttggcct | ttgccatgtc | tttctttttg | tactttctca | atatttgtgt | ttttcttttt | 66360 |
| ctttcacaaa | catttttagt | ttattcctta | caagaaccca | tgcataataa | gatggcagtt | 66420 |
| tgtccaaaac | aaataagatg | gccaatatgt | tttcaagtgt | acacatgtat | atgtgttttg | 66480 |
| tgtctgaaga | tttaaagcca | atgtctttta | aaccaataga | aatgtccgga | ccactctgag | 66540 |
| aaagtaatct | acaattaagt | gaatcatcaa | ggtgcgatgt | tttttgata | tggaataacgc | 66600 |
| aatttgcact | acttgtgtta | attttcatga | tccatatcat | gtagtatgtc | tcaaagttga | 66660 |
| taaatacaat | aattctctgta | cttcgttttg | tcttaatcaa | gtacacgtca | ttatactcaa | 66720 |
| agtacatgta | ttatgtggat | atcaataaaa | gaaagtatag | aaaatagtat | cttgattagt | 66780 |
| tacggcatat | cgagctgagt | caaactctcca | atagtgtagc | caattatttg | tccaaatatt | 66840 |
| ttttaagag | aaaagggaaa | atagtatttg | aggttggata | taatggaata | ttgactaatt | 66900 |
| ggagtgggtg | gtacaaaaca | caatcaaaaa | gaatctgaac | ttgttcaaag | ttgtggacca | 66960 |
| accaacgggt | atgaaccaat | gatatacgtg | tgagatgaat | atttgcacat | aaatatcatc | 67020 |
| atcatgggtt | ctactttcat | caacaatgac | attttaaaagc | tactactttt | tttcgtttct | 67080 |
| tccgtcagta | aaacctttta | atgtttgtgc | tttttccttt | agaaataaaa | atttaaatgt | 67140 |
| gagcaatatt | ggtcaagtgt | gtgtaaatgt | ataaccactt | tgcgtagagt | aacatggaga | 67200 |
| taggagcatg | tgggtcataa | cagcgtgatc | gtgcgtgttg | tggtgtttcc | tcactcgcct | 67260 |
| gctccttatc | atgtgtaacc | atccgcctca | atcaatgcta | acttgttaat | tatttgattc | 67320 |
| ctttaactgc | tgcctacttt | tttatcgtct | aatattcctt | tcttttcaca | aaaactagtt | 67380 |
| gtagactaac | ttcagttttt | gtaaaatagtt | gttttacaat | gcctgaagca | tgtaaaactta | 67440 |

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| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| attgttctag | taaactacta | gtgatcgttg | cataatcata | attcacaatc | caaataaaaag | 67500 |
| tgtcattagt | gtatatgtaa | acaataaaaa | aatgatgggtt | tggatatact | tttgtaaata | 67560 |
| tatttcatgt | ttatttagaa | aaaaataaca | tgtaaactaa | aattccaaaa | acaatttaaat | 67620 |
| aatttccgcc | taacgtagac | atgtatatag | tgaattatg | aagagatacg | gcaatgagcg | 67680 |
| acaataattg | agagcaaaaa | gatgggtttc | gtggtgagag | atattatgaa | aagtgggacc | 67740 |
| caacgcttta | cataagatcc | gacaagatgt | cggagtgtgtg | tttcagtgtg | atctggctgt | 67800 |
| cccacgtgtt | cactctgact | tgtgccacac | gcactgacca | agtgcgttat | atccacgcgc | 67860 |
| gcatgtttat | ttgtaatcat | ttacccctca | acgaaaaaga | gagtcgcgaa | agcatgatga | 67920 |
| ttgatgatca | atcattttatt | agtgatcctc | caatagcttt | tatgtaagta | ttggcaaaaa | 67980 |
| catcgagtgt | tcttggtgtt | gagggttcgag | catgtctaag | tttgagtctg | gcaccaaggt | 68040 |
| aatatatata | tcggattcaa | atttgggtcta | ctagtctaac | ttttagcact | taattgagca | 68100 |
| tgaccgcgga | tcttgcaacta | gggtgaaaca | attcttaacg | agaacatatt | caagtagcat | 68160 |
| agcttaaatg | agaatttcat | gttctatccg | taatgggtgaa | tggcttaaat | ttctgcattt | 68220 |
| agcccctact | agcacttttg | tatcgttaat | ttgtagatat | agcaaattga | gatatggcgt | 68280 |
| ccaaacagca | acttgttatt | tcacattatt | ccgatttttt | cagtagagcc | tcgtctattt | 68340 |
| ggaggtagtg | cagaagggta | tgagcattct | cttacagtct | taccttagtt | tctcaattta | 68400 |
| catgataagt | gaaatattga | attgaataca | ccatttcgat | tacttagttt | ccttcggaaa | 68460 |
| taaaatatat | atatattatt | tgaataaaaa | gctgcaggcc | tacatcacag | atccaaatcc | 68520 |
| aaagttgagt | accacaacac | aaaacaaaat | cataggcaac | ggaatatttt | aaaagtatgt | 68580 |
| gttgtaatca | ttttatatgt | ttggcaattg | cgtaggacta | ataatcatgg | ttttagttgc | 68640 |
| ttaatcatat | gtttcatgca | tgtgtatatt | agctttgaat | gttctttaca | gcattttggc | 68700 |
| tgtagaacga | ggtcatcatt | ggggatattt | tatactctct | gttttttcct | taacctaaact | 68760 |
| aaccaattat | tctctaaaca | aatagtacat | tagattttgt | ctaattgtcc | tctcacatgt | 68820 |
| actgagatct | gttaactgga | atatttgatt | attttttaga | tttaggaaaa | atcaatcaac | 68880 |
| atgcataatt | atgatcatca | cacaaagcag | cttattctta | ttctagagaa | gctcgggaatt | 68940 |
| tgagggtttgc | atcacatgat | tgttggactc | ttatagtatt | ttaaaaataa | acactaagct | 69000 |
| ttaattatta | acgaaaatgc | gtatgtgaca | gttttgatta | ttttttgacg | ttaaaattga | 69060 |
| ggcttgttat | tactaatggt | aataatatga | tcgatcattg | agattcccat | gccaaaaata | 69120 |
| aagatagggga | ttataatttc | ttcaatgatt | ttgtttaaag | tcataatttc | ttcaatgatt | 69180 |
| ataaggataa | aaaatgaaaa | tcatattgga | gaatcttgag | agagagcttc | gaaagttggg | 69240 |
| tgggtgcgtaa | aatcttatgg | gctacccatg | tgggaattgac | gtggcgacaca | tattcttatg | 69300 |
| cgacccaaaa | ccaccactc | cagcgaagca | cacgtgtgtg | tagtgacacc | cgcacgtgca | 69360 |
| ttccccactt | acatatagat | ttccagtcaa | cgggtcaaaca | tccgtctctt | atttttctac | 69420 |
| tcacaagaat | aaacgaaatg | tttgtttaat | gaacgtgtac | taattagatt | attttcatat | 69480 |

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| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-------|
| aatcttgaaa | atgatgatcc | agaagaaaac | tattaacctt | gaaaatgcaa | agtatcacca | 69540 |
| agaagaaaaa | tcagattatg | ctcttctcgg | cttataaatc | tataatgatg | caaagttgtg | 69600 |
| aataacttaa | acattgttgt | tttgtgaccg | ttcactctta | aattcaaacc | acaatctctt | 69660 |
| cactcttggt | ttatattaca | tcgacaaaaa | gtccaaaatt | gtcaaactct | gtcgtcgtat | 69720 |
| caacaatggt | ccactgtctt | atcaaactat | acatgtcaca | ttatgatttc | acaattagca | 69780 |
| gttagattag | ttagttttgt | aaaaaaggaa | aatcaagcc | agagcggctt | gggaaagaag | 69840 |
| atagtttctc | ttgtacacaa | ggatagcctt | tttcattgtc | tcactataaa | catacaaggg | 69900 |
| agagaattag | ggcatcgaaa | gctttcatta | taacacaagc | aatatccttc | taaacccacc | 69960 |
| agggtctttt | ctccatcaag | tccttgagaa | aaacataacg | gaattttgaa | ctgtatggca | 70020 |
| accattcgac | gacctgcgat | gctttcttgt | tgtttggttt | gccttgtagc | catttttgta | 70080 |
| ttgattctcc | aagcttttcg | tctgcgttat | ctattaacca | tctcatcagg | tcatcaaagc | 70140 |
| tcagagaagc | ttcctttgta | aacctctcta | taatcttagg | taataacact | ttcttctgca | 70200 |
| tctttacaac | cacgtttgct | ccaagaaact | ctctttttga | agcatctaata | tcctctttta | 70260 |
| cgtttgatgc | agtgtaggct | tttagctgca | atcacttcca | tcatgtaatt | tcccattaca | 70320 |
| agctattctt | ttgctcaagt | aaaccaacat | attctgactg | aaatgtgaca | aaatttaata | 70380 |
| tatgtatgtg | aataagatta | gtaataaaac | gtcaaaagaa | gttaccactg | gatctgatag | 70440 |
| agcaccaatg | caaagagcaa | aacagacaag | tggctctggt | ttgtcaaggc | taaacattga | 70500 |
| ctttacttta | tcttcagctg | gtttcttcct | caaggcgggt | gaaataatgg | tctcaagcca | 70560 |
| ctgcaacata | ggattctttc | aatgattctt | ctttctgttt | gaaaaaggat | aaggagtaaa | 70620 |
| gactcttaca | cgtccattcc | gtggagtctg | gaagcagaag | atagagtatt | caatgggtgt | 70680 |
| tgcatatgat | atgtgcccac | cgatattata | cgcagactgc | actagacatt | agacaatgaa | 70740 |
| accattagtg | ctctgctcaa | atatgaatct | gttctcatgt | caagcattga | gatcaaagta | 70800 |
| gaataccttg | tgaacaaaag | ctaaccttct | gagggaaatga | gcaggtagac | catatgctaa | 70860 |
| gtatgccttg | agaagatata | tagaagatta | tcctcataga | agcatgaatt | agcagatgta | 70920 |
| aagggttttt | gtatcagatc | aatatatatt | tacatgcatg | aggagagcat | tgtatatgtt | 70980 |
| gatccaaaag | gctaactttg | cattgccttc | catttgattt | atagtaactc | tctctagttg | 71040 |
| ttcaacaagg | agcctgcaag | ttaaaatcat | gagttcttgt | gatggaacta | aattcagatg | 71100 |
| ttgttttcaa | aaactgctat | tgttggacta | acatatagtt | gttgatagca | tacgttactt | 71160 |
| gagaaaatct | tttcttgtct | gatgagatcc | aagatacttc | caccatggat | ctgcaggacc | 71220 |
| aagctctgtc | ttcattcata | atgttcttgg | ggatgatcac | attgctagta | gatgatcttg | 71280 |
| ataggattct | cttttcagga | tctgctgaca | tggcactgca | gcagagccag | aagtacactg | 71340 |
| aagacatata | cttgaccata | tcttcagaca | acttgtttgg | gcattgggtac | aaatgatcct | 71400 |
| taagagttct | ctgagatgga | gacttctact | ttactgaatc | ctttaagaag | tgggactgac | 71460 |
| agaaaaatca | acagaatata | taaaagttag | aagaagtatc | aacaatgact | aaattagggg | 71520 |

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| | | | | | | |
|-------------|-------------|-------------|-------------|------------|-------------|-------|
| gaagttagtc | tttattcatt | tacttttgct | tgacttgagc | aacttggtgt | tgaaggaata | 71580 |
| cagtttctga | actggaactg | agaagattgg | tcctttttgg | aagtttttct | actcgaatct | 71640 |
| ttaagagtaa | ccatagcatg | ccacggcttt | agagggaaat | tattggagga | acaaaatgca | 71700 |
| tttgaaataa | catttggttc | ttgttttctt | ggtggctgct | ttatatgatg | agctggagaa | 71760 |
| gaaatgcttg | agctttgttc | ggaagggtgct | ctgcttactg | tctgttcaaa | tatacttcga | 71820 |
| tatagagaaa | gcacatgatg | ctcgcgattc | gtgacctctg | cttcaagcaa | ctcaatctcc | 71880 |
| gtgataagtt | catttgcttg | aatcatccaa | attcacatgt | aaaatctaaa | gtctcacaat | 71940 |
| ttctattttac | tcttaagtaa | aatgcagaaa | tactgaagtg | ttttacctga | ccagcaaaat | 72000 |
| gtctgtgccc | tggagacaaa | ctgctcgaag | cacggcccat | tgctctctct | aacaccattc | 72060 |
| tcatagattt | ctcctgttga | agacgaaggt | gaagctgctc | aacctgtgta | gccaaagtcac | 72120 |
| aaagatcatt | cagatgagat | caattcactt | tttggacatg | ataatgcatg | ttaaagacga | 72180 |
| ggagatacga | aacatgacgc | gcttacatcg | cgttccaagg | atgctctgtc | gttagaagac | 72240 |
| acattgtttt | tagttaacat | ctgacaatta | tgagtggtt | ttggtctctt | gtttgctgtt | 72300 |
| gtttgaacag | aggatgccta | tggaccagaa | aaatacaaat | caacctcaaa | agaaaaaac | 72360 |
| aatcatatga | aatacagctt | taaagtgtct | tacttgcatt | ctagtgaagt | tgtttgcaga | 72420 |
| ttgtgaagct | ccattaccag | aagtgtgaag | atcccgtctt | gacgacgcac | tgggaagatc | 72480 |
| ataaacaaga | attcgttcta | gcctctagga | agaaacattc | taaacagaaa | aagctctaaa | 72540 |
| acagacttct | ttgcataaca | gtctctatct | acgtcgtttt | catcatagag | acgtttaagc | 72600 |
| aaacattggt | gtgcaagaaa | catcgagaga | taatctcaaa | aaccatttaa | tggatttaag | 72660 |
| ataaagattc | aatattagtg | aaaagattga | gcttaacta | ttgaagcgag | agtacctttt | 72720 |
| agagcggcca | tgtttatgag | aatccaggca | atgccaagaa | tctccgtttc | ttctctgctt | 72780 |
| gttaccgtct | ttattcaaat | caaaaccacc | catatatctc | agccaaaacc | ttaaactcag | 72840 |
| atgatgaaag | taatcaaagt | ctccaaaaga | atctcagtaa | aagaagaaat | tgataaagga | 72900 |
| gtgaattcaa | atgcagcaaa | ggagaagaaa | gaatgaagaa | gtaaatgcag | agacgaaaac | 72960 |
| tgaaactgta | gcttagccca | taagaaaggg | gaccaggtta | gtagtatcag | agtgccctgcc | 73020 |
| aaaattcaat | tacatttcac | tttatgggtg | ttgtattgca | tttaattcga | tttttttttt | 73080 |
| gtctcatttt | aaattcatag | ttccatttcc | ctcctttttt | cgagaaatac | aacacttcta | 73140 |
| ggtaggaaa | attcgcataa | atagttatac | tcttaatttt | ctctggtcaa | ataatattaa | 73200 |
| gaacacgcta | cagtaggaca | gtgcagtagt | taatgttgct | atgtcgggtc | gagtacattg | 73260 |
| agaatttaat | gttccgatat | aaatttcctt | gttttttccc | aattttgaaa | agtccgttaa | 73320 |
| attttcatat | ttattcaacg | agacactgta | ctttcagttt | ccaccgaaaa | ataattcatt | 73380 |
| actcatcatt | tattcaatgt | tcgataattt | cttgggaagca | gacagcattt | gggcctcgag | 73440 |
| atttaaattg | gcccaagggtc | cacgtttact | tgggtcaatc | acagtcaaaa | cgttttccccg | 73500 |
| gggtttctct | caattttttt | gtcaaagtct | ctcaactttt | aaaaatacaa | acactgggat | 73560 |

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|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| cctccacggc | atgcaaaagg | atattataat | gaagatgaaa | tcaaattggt | ataaaaagtt | 73620 |
| ggagaaaggt | ataaacacta | tgtatgtggc | taaaaatagc | tagaaactta | taatttaggt | 73680 |
| gaaagaagat | ttgagtaacg | ttgttgttgt | tatataataa | gatgaaataa | tgacaagaaa | 73740 |
| tctgaaataa | tatgcgaata | tgccaccgac | gggagaaata | cacgtggacg | gctgataaag | 73800 |
| ctttgtgaag | gaatcccaca | ataatataag | aagatctgac | caaagggtcc | tttctggata | 73860 |
| agccgctctc | ctcgtgtcca | cgtggcattt | tcaaacgtgg | gacctcctaa | tctatatcac | 73920 |
| taaacccatc | cactcatatt | atctctcttt | ctatcatcta | aaatccaaaa | tgttcgtcca | 73980 |
| tttttttttt | tctgttcata | aacaaaaact | gcattgcctt | ttaattttatt | cttcttctaa | 74040 |
| tccatacaaa | tgattatgga | actataaatc | tataataata | atacaattaa | ccacaaaata | 74100 |
| aaatataatc | tagtattata | agatatgact | tttggagtta | gggggtgtct | aatacaaaata | 74160 |
| ttatgggtatt | tgtaatctta | gcaagaaatg | aaatcacaa | catgtttatc | tttcttaaga | 74220 |
| taacatattt | tactcagtca | tgggtctact | tttattttca | gtttagatta | ttaaataaat | 74280 |
| aacaatagtt | ttgtcgcctt | actatatgac | caaaaattag | atcttctcta | tgtgtaggat | 74340 |
| gttggcattt | gtttaccatt | tttcttatga | taacttatta | aacagatgtc | atattttact | 74400 |
| tatttgtgtt | tataactggt | aaaatctagt | caagctttct | gtatggaacg | cgtgaagggc | 74460 |
| tattaagata | ttttaaaatg | ttgaatagtg | taattaatct | tgtggctaata | aatattcatg | 74520 |
| ccaattgtta | atcttctggtg | gaggggttaac | acttgtacat | aaataacttaa | tttttctttt | 74580 |
| tgcagttttt | gtatagatat | ccatccttat | ataaatagaa | aaatataagg | aaattgtaat | 74640 |
| gatttagcat | aagacaattg | gataatcaca | aatgcattaa | acctattaac | tagtctatat | 74700 |
| agaaagagtt | attagttaca | gctatactat | ttgtgggtggc | attaatatat | agtaacttat | 74760 |
| ttaagatata | tgtcataatg | ttaaaaagaa | atcacagaga | aagctgttat | tttttttaat | 74820 |
| cctaaattta | aaacttttga | tattgagatt | agcctgtaata | acatcttttt | ccaaaaaatt | 74880 |
| tatacaaaaa | tggccattaa | taattaatag | taatagctag | ttggacttct | tagttcaaag | 74940 |
| taattcaaca | tttttttctaa | aataaatctt | ctaataatag | aacacgttgg | attgactaat | 75000 |
| taagtcaaat | atgaaatatg | gaaaaggaaa | aaaatccacc | aacgatacac | caaataattt | 75060 |
| ccgattttta | tatatataaa | taaacatact | aagagcaaaa | gaaaaacaaa | ctgaaaataa | 75120 |
| aaaaaataaa | taaataaaaa | aaaaaatccg | gccagataaa | tcgaatttat | gtaataaatc | 75180 |
| cgaccagata | aactgatatt | attgtctttc | ttccgctcct | ttgtctctct | atctctttct | 75240 |
| cacaattaga | ttctgtgctt | cttctgcgat | caactaagat | ccgatccgcg | agcgtttcag | 75300 |
| acttcgatca | gatccgatta | agagaagcaa | atcgggtcgg | gtatgactcg | tcgatgttct | 75360 |
| cactgcaatc | acaatggcca | caactctcgg | acttgtccca | atcgcggcgt | gaagctcttt | 75420 |
| ggtgttcggc | tcaccgaagg | ttcgatccgg | aaaagtgcaa | gtatgggtaa | tcttagccat | 75480 |
| tacacgggtt | ctggatcggg | tgggcatgga | accgggtcca | acactccggg | ttctccgggt | 75540 |
| gatgtccctg | accatgtcgc | tgggtgatgg | tacgcttctg | aggatttcgt | tgctggctct | 75600 |

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| | | | | | | |
|------------|------------|-------------|-------------|-------------|-------------|-------|
| tcctctagcc | gcgagagaaa | gaaaggtatc | ttcgtttgat | ttctgagatt | aaatTTTTTTa | 75660 |
| tcaaattcca | aatTTTTgtA | attgagttta | ttttgcatca | aagtcgttga | ttgcattatg | 75720 |
| taacaagtgg | tgatctgggt | tatgtaacaa | gattttgatg | tgtgtttgat | attggTTTTg | 75780 |
| ttgtaggaac | tccatggaca | gaggaagaac | acaggatggt | cttattaggt | ttacagaagc | 75840 |
| tgggtaaagg | tgattggaga | ggtatctcaa | gaaactatgt | gaccactagg | acacctacac | 75900 |
| aagttgctag | ccatgctcag | aagtattttca | tcagacaatc | caatgtctct | cgtcgcaaaa | 75960 |
| gacgttctag | tctctttgat | atggttcctg | atgaggtttg | ttccttcttc | attcaaaaac | 76020 |
| accatTTTTa | tttatattgg | agtggttaca | aaatgtgttg | agatactgat | ttaaaggatt | 76080 |
| cagaagctta | ttaggtggat | tggtttgcct | tctacatttc | aatatgaaaa | gttgaagtct | 76140 |
| gttggggttc | taattgatat | gcttgaggat | atcattttgt | agccaatcct | gcttaagcat | 76200 |
| tttgggtctc | tcatgggaat | gtgatcttga | aatgtaattc | tctttcttta | ttctgcttat | 76260 |
| gctgtgtgat | ttgtccttgt | aggttggaga | tattcccatg | gatttgcaag | aaccagagga | 76320 |
| agataatatt | cctgtggaaa | ctgaaatgca | agggtgctgac | tctattcatc | agacacttgc | 76380 |
| tcctagctca | cttcacgcac | cgtcaatctt | ggaaatcgaa | gaatgtgaat | caatggactc | 76440 |
| cacaaactct | accaccgggg | aaccaaccgc | aactgccgct | gctgcttctt | cttcttccag | 76500 |
| actagaagaa | accacacaac | tgcaatcaca | actgcaaccg | cagccgcaac | tacctggctc | 76560 |
| attccccata | ctatatccga | cctacttttc | accatattac | ccgtttccat | tcccaatatg | 76620 |
| gcctgctggt | tatgttcctg | aaccacccaa | gaaagaggaa | actcatgaaa | ttctcagacc | 76680 |
| aactgctgtg | cactcgaaag | ctcctatcaa | tgttgacgag | cttcttggtA | tgtctaagct | 76740 |
| cagccttgca | gagtcacaac | aacatggaga | atccgatcag | tctctttcat | tgaagctagg | 76800 |
| tggcgggtca | tcttcaagac | aatcagcatt | tcacccgaat | cctagctctg | atagttcaga | 76860 |
| catcaaaagc | gtgatacacg | ctttataaaa | gacctgagga | agtgatgggtc | taaaatggga | 76920 |
| tctggtttgg | ggtttacagg | ttagttgttg | gtcacagtaa | cttaaataag | tttttctttg | 76980 |
| ttaggttggt | taacttgggg | aggatgtttt | agttcagctt | tgatcattag | ggaaaagaaa | 77040 |
| aaagaaaaaa | aaaagggaga | aaaacaaatt | attatTTTTt | gcttacattt | ctttatatatt | 77100 |
| gtagtctttt | atTTtgactc | taggatgcgt | taatTTtcgt | ttaatctgta | ctaaaaatta | 77160 |
| gaatttatta | gttttgaata | aataaaatca | cagtttgttt | atcctctgac | caaaaactat | 77220 |
| aactggattg | aaaacggaaa | ttaaaccaag | acgaaccgga | tttaaccgga | ctccagtgtt | 77280 |
| gtaagagaaa | gtaaacaagt | tccaagcgt | ttcgtaagta | aaaaaacgaa | tgggctaAAC | 77340 |
| aattagtcta | aatgggcctt | aaaagagtga | ataacgtgtc | ataatcagga | gcgttaaatt | 77400 |
| tagggcgatg | agtgtcgaga | gtgttcccg | gttcaccgat | tcactccact | ctttggttaa | 77460 |
| aaagtccact | gtcatggaaa | attaatcgcg | gtgatttaca | cagatgccac | gtggcacggt | 77520 |
| cgctttcttt | ttcttcctcg | tgttgatttt | ttttcttctc | ttttgtccct | ctttggtttt | 77580 |
| tcttttcccc | ttcacaaggc | gcgatttgag | tcgcctcgca | tttcaaacc | ttcttctccg | 77640 |

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| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-------|
| gcgtaaacct | ttgctctatc | tctcgataaa | aacccttggt | tcgttttcac | cttcgtattt | 77700 |
| agcgatgctt | ccacactcct | acaccgtcga | ttcgctttcg | caatcacaag | acctagcttc | 77760 |
| agctatactc | tcagcttcca | cgccgtcgag | tatctccgct | gcttgctctt | ccgtcgaatc | 77820 |
| gtttcttcag | tcgcatacgc | ctgatcagtg | tcgccatttc | ttctctgtta | cttttccgag | 77880 |
| tttaatctgt | aagatcttcg | gtttcggcga | cacgaccgcg | gcatctccgg | cacagtcttc | 77940 |
| ttcgctgcga | ccgaacgggt | ggatcgatgt | aatctcggcg | gccaacgatt | tggatttagc | 78000 |
| ggagagagta | tacaatctct | tatcccctag | tggaatactc | atgagctcaa | tcttcgctgt | 78060 |
| tgataaatta | gctcttggtta | agtatgtttt | cccgcaggaa | cgtttaccgg | agtatgctag | 78120 |
| attcatgctc | tccagcgaga | aggatcgaat | tgcgttatcg | aatctgtgcc | cctttttgaa | 78180 |
| aggtaaaatt | gaggaggatt | cagttcgtgg | ttcattgtgt | gaagttaggc | taaatgtttt | 78240 |
| tgagtattac | atgttttggc | tctcttatta | tccagtttgt | agaggaaaca | atgagatttc | 78300 |
| agctgtgaat | ctgaatccta | tccaaaagag | aaacaagttt | aggctagaga | attggacact | 78360 |
| tatcaaaggt | tttcaggga | gtaacaagcg | tgattctgat | cagaaattgg | agtgtaatct | 78420 |
| ctacataagg | cttctttact | cttatttgaa | agcatttggt | cctgttttcg | acttaaacgc | 78480 |
| tcaccagcct | tatcgtagtt | ctcttttgca | ttacggaaat | gggtatgatg | ggtcagtgat | 78540 |
| gacaagagct | gagttcttgg | tgaatgtttt | cgtgcattat | tggcttggtg | agaatgactt | 78600 |
| ctcaccattt | cctgttggtta | cggctaaatc | ttttggtgtg | gctcctcctt | tccgttctgc | 78660 |
| tgtggaggag | attccaccta | cttgtgggtt | ggaagaagta | gtgaagttgc | ttgtcaagta | 78720 |
| tctgaatttg | agttgggtta | caagtgggtg | tgggagtga | aactacattg | agtatggcga | 78780 |
| gagtccacgg | tggaagacac | cgacttcagg | atcgtcatcc | catgtcgcga | atttgagcct | 78840 |
| caggccgctc | acttcctgga | acacccattt | acagaggccg | ctttatcggt | atatattgag | 78900 |
| gagtttcttg | ttctgtccca | taggaagctc | aattaagaat | gcatctcagg | tgttctccat | 78960 |
| ctgggttacg | tacctggaac | catggatgat | cagtttggtg | gatttctcag | tttttgaacc | 79020 |
| tgctttaagt | ggatctgtaa | aagatatgaa | aaaggaagat | tcttatgaat | cacgcgtttg | 79080 |
| tggatacacg | cctttgtggc | agagctatgt | gatatccaat | tatctctact | atagttctct | 79140 |
| ggtcatgcat | tttattggct | ttgcacacaa | gttccttcac | acagatccag | aaataataac | 79200 |
| tcagatggct | cttaagggtt | gatccctggc | ttaagctatt | ttctcaaatt | catgagttta | 79260 |
| tctgtagaat | atggattgca | agacttctgt | ttgaaatctt | aatgtgactg | aatggttcta | 79320 |
| ctgtgtctcc | ctaaataggt | gatgagtacg | ttgacatcgt | caaaagagct | tttggttctg | 79380 |
| atgaagaata | ttgataaagc | ctttcactct | aaacaaactg | gaccaggaaa | ctcaaaagtg | 79440 |
| aacgaattgt | ctagattttc | tccatctatc | cgtagagcgt | tgaaggatatg | cctatatttt | 79500 |
| tcctcaacac | cagttgttat | ctgttctccg | gtcatagaac | gcttttccag | tgattttact | 79560 |
| cttatgtatc | cgccatcctt | tgtcttcata | cttatttagc | tttttcatca | taacaccctt | 79620 |
| ggaagtttaa | caaaagactg | taaaatcaat | ctttttttca | cataagtcac | ataagtactc | 79680 |

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| | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|-------|
| aaactctata | ctgaaaaatc | atgtttaact | gcttgtggaa | cttcaggatt | gggaagatgg | 79740 |
| gttgtgtgag | agcaacgctg | atggctcata | cttgcataaa | aactggaaca | aagacttgaa | 79800 |
| actcttttagt | gatggtgaag | atggcggaca | acaactgctt | caggttaatg | tcttcctttt | 79860 |
| ataacctact | gtagtataaa | gttaggaata | aaaaaatgga | agataatctt | tgtaggatga | 79920 |
| tatcttcaaa | tgtacttaaa | atagctctat | tatggaatga | tctagttgac | aaatatatag | 79980 |
| ataaaccttc | agatttactt | gtttgttggt | tgtagccttc | tatctatatt | aacaggagaa | 80040 |
| tttgttactt | gacaattaga | tgagtacgca | gtcatcggca | atgttgtgag | ctattaactt | 80100 |
| gggaatttgt | tttttgagaa | attgttcacg | gaaatatact | ttgagaacta | gttctcctac | 80160 |
| atttgttttt | cagtaacctt | gttgatcgc | atgttttctt | gtttccgata | ctctacttta | 80220 |
| gtttatacga | ctcttgaatc | cttttagctca | taggggggga | gtggagctta | aaacctgttt | 80280 |
| tactttgctg | aaggcgtttg | ttctttgcat | ttgcagctat | tcatactgcg | ggcagaagcc | 80340 |
| gaactgcaaa | ctgtatccga | taaaaacctc | acagaggccc | ttaagtgtgt | agattcacta | 80400 |
| aaatcagcgg | tttccaactt | ctttggcggg | catgtcgtaa | aaccaatcgc | ttttttccta | 80460 |
| gagccggacc | atcctcagaa | aaaccgtgac | gagctcttca | agccacgtgg | tgctggtaac | 80520 |
| caaacagcag | gcggtgtgaa | gtacaaaggg | gactggatga | cccgtccggt | gtcagaagac | 80580 |
| gaggttgcat | tgatggctaa | actgctaata | aacatgtcta | tttggtcaa | tgaacgcctc | 80640 |
| gggctgaaca | aatctgagac | gagcaacgac | aagaaagaga | attcagagtc | agtatcatat | 80700 |
| gtagatgtat | caggggaaga | tgtgggaaac | gttgcaggac | ctggagatgc | tgcaagatg | 80760 |
| ctgttgcgag | ggatggtgat | ggtatgtggc | acagtgttgc | agctgatgag | aagattcggg | 80820 |
| attcgagtca | atcttcgggt | tatggcttca | aaaaagtttc | tgatgctttt | atttctctat | 80880 |
| gtcctgtttc | ttgtagtcaa | aagggtagtc | acaaggatga | tttggttagat | gggtgtccaa | 80940 |
| aatgtgttaa | aagttgaaga | agtaaaagga | aatagacact | ctaactcgcg | tagagcgttt | 81000 |
| gataggaatt | ggaaagctta | tttacgaaac | agggactgag | ttttttggta | atttacatgt | 81060 |
| tcgcattaca | aattgaagcg | tgtctttact | tgttacaacc | aatgagaatg | gtccacgtaa | 81120 |
| tcagtctcca | cgtgtcatct | gccaataaga | tccaccatc | agcaaaattc | atcggtcgtt | 81180 |
| cgtcgctgac | tatcacaatt | ccgaacacca | aatttcgaat | ttctgccact | tgctttgtga | 81240 |
| tctgatcggt | cgaaattgac | cggagaattc | ttctgtgttc | ttagatctgt | cgcaaatgtg | 81300 |
| ttaaagctcc | tcagaagggt | ttggttacag | atcttctctg | tggtcttcac | cactatggcc | 81360 |
| gctccgtttt | tttcaactcc | atttcagcct | tatgtctacc | aggtgtgctt | cttctctctt | 81420 |
| tgatcatttc | gctttcaaaa | tgatgaggtc | gtgttcttct | tagttgcaat | ttgactaaat | 81480 |
| ttgaggttca | ttgtaagtag | gatttagaga | aattccatct | ttgattagtt | taacttagct | 81540 |
| gggagaacgc | ataatcgggc | caattagggg | ttttagatca | tgacattggt | ctagtgttgt | 81600 |
| ctaataagtg | gccatttgat | gcagagtcaa | caagatacta | ttacaccggt | ccagattttg | 81660 |
| ggtggtgaat | cccaagttgt | tcaggtacat | ttgctttctt | aatatagcgt | gatcttcgta | 81720 |

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| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-------|
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| taatgttaaa | gtcagaggag | aaagtcattg | ctaagcctgg | tacttccact | gaataactcg | 81840 |
| cttctctact | cagttttgta | taatgggttc | aagtttcaac | taattttgtg | ttatgggtgat | 81900 |
| gtagcttcca | tgtgctacat | gtctggctcc | atcgagatgg | aaaatacata | cactcctgaa | 81960 |
| caagaagttg | gagttctgca | gtggattttg | ggcaagagtg | taagcagtg | tgttcttcgg | 82020 |
| aatactgggc | aaaacgacgg | gtttgttggg | attgctgcac | cttatttggc | taggattctc | 82080 |
| ccggttagtg | attttagctt | gtccatgttg | gcataatcat | cttccatttc | acccttaatg | 82140 |
| tataccgcct | gattccttgt | tgtttttgtg | atctttgttt | tccatgtaga | ttgatttggc | 82200 |
| aatgtttgga | ggtgagatct | tatgccaggt | agagtctttt | ttcctagatt | ttgaacactt | 82260 |
| agctatcagc | ttctttcttca | ctcagatcaa | gctcttacag | agtcgcctga | ccttttcttc | 82320 |
| actttctgta | gccagatgca | ttcctttgtt | ctgtccatga | tgtgaagggt | gtcaactccg | 82380 |
| ttgaccagag | agcaagaaac | attgttgccg | ctggtgcaga | ggtaagaact | aagaaggaaa | 82440 |
| atacgttgat | ttggtttctg | atgcaattat | tattcttaac | aaaattctgc | aaccgcgttg | 82500 |
| ctggcttcta | ctcacaatt | gctgttgca | ggatttctga | gacaacgcct | atctggacaa | 82560 |
| ggtcttgctt | tcctctctgc | aggtggctct | ggtgagattt | tatcccaatg | aaatgctgtt | 82620 |
| tccgttgagg | cctcatcccc | ttcaataaaa | ctgacattta | acatcccaa | catgttagtt | 82680 |
| gtacaaaaag | ttctggaggt | aggagaagtt | ttctccattg | acgtttcctg | tattgctgct | 82740 |
| ctcacaccct | ctatcgatgt | ccgaatcaaa | aacaatgctc | cttttagacg | agcactattc | 82800 |
| ggggtacatt | ttcacatata | ctttgtttca | atgagaagaa | gattcagggt | tttgttttgt | 82860 |
| ttctcaactg | ttttaatctt | tcaacattca | aaagggtgat | aacgtagtaa | tggcgactct | 82920 |
| aacggggcct | ggcattgtct | tcattcaaag | cttaccgttt | catcggctct | cgcagcgat | 82980 |
| tgcaaggtaa | agcaaccaac | aatccaaatc | tccatttatg | ttgcaaatat | gtttatataa | 83040 |
| agtgtgaatg | gtttttctgt | gacaggctcg | taacgtcgcc | aaacatgaga | gagaatccaa | 83100 |
| aattgctgat | acagatagct | atatttgcgt | tcctagcata | cgctgtgatt | ttgtcatcgt | 83160 |
| tgatcttaac | cgaagtttga | aagcagagag | atagaaagaa | ttatccgacc | aacaaactaa | 83220 |
| cgttgtaatt | gttcaaatta | tctcgggttt | ggactttgga | tggatagagt | gaagatgaat | 83280 |
| tagacacatc | tcaaaccatt | ttcttttcgt | ttactagtga | gtttaggcac | ttgtgttata | 83340 |
| ttgatattgc | tcctatatat | tgaaaagtga | aaacgtagat | accgagttga | acaaaaattg | 83400 |
| gattctttac | ttaaatcaca | catcaattta | aattaattaa | tttgattttt | tgttttgtta | 83460 |
| aataattaat | gtctaattgat | attattgatt | aattttcatc | ggatgggtta | gaaattggat | 83520 |
| taattcaaaa | aaaaaaatct | ggattaattc | gttaccaatg | gatcatatag | tcaagactca | 83580 |
| agagaatgtc | tcaatgatat | catggactaa | ttttcagaaa | atggattata | gcaggagtta | 83640 |
| atagttttcc | aaaaacattg | aactgtcaaa | aacagtaaac | atgctcaagc | aaaaattcac | 83700 |
| aattttgaaa | acagcgaaat | gtcataggtg | ttaacacacg | aatttcaaca | atatacaata | 83760 |

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| attcgcacat | aagatctctc | aaatcagtga | agctagacca | acaagaataa | atttgatatg | 83940 |
| aatcgtcgtc | aaaacaaaca | ctaaatttct | cactgtaaat | tcgctgggtc | catagattaa | 84000 |
| gaataaagta | gttacgaaat | cgaattccac | tacaaaaatt | aaaaaagaat | tcgatgacaa | 84060 |
| aagaactctc | tctctttgtt | cgttacagca | aaacaagaag | attctcattc | tctgtttttg | 84120 |
| attatacaaa | aaaaaaaaaa | aacatgtttg | aaaatccatg | tcaagctcga | gatctctccc | 84180 |
| cctttccacg | ttttgagtat | cggagtttat | cttcactcac | atcactaacc | accaccggtg | 84240 |
| gtgatcgcgc | gtaccttgac | ggcttcctct | tgaaatgcct | atcttcatca | ctagattcat | 84300 |
| aatctgctac | ttctattttc | ttccgactac | tgtgtcgggt | aactgatgtt | cccacggcgg | 84360 |
| ctgcggcaga | ggcggaagca | gatggatccg | taacagaagt | agaagaagag | gaaggcacct | 84420 |
| ttcttcgttt | accagaagat | gtttcttcct | ccggaaaact | tatccgagcg | aatacgctag | 84480 |
| acttaagatt | attctcga | tctgctttag | tagcagggac | tggtggctcc | gatgaaggcg | 84540 |
| gttccgatct | cttgcggtgg | tgatgttggc | tgcgttcggt | ttcaccacgg | tggtggcgat | 84600 |
| gatctcggct | tctgtcttca | tcgcgacggt | cgcgagtacg | gtcgtgttca | cgatctacgt | 84660 |
| cttggtgacg | tgacctctca | cggtcgcggt | gccgatctcg | ttcatcagga | taacgctcgg | 84720 |
| atcttctctt | ggagtcgcga | gacggggaaa | tgttttttacg | cgtaggcgga | tgctctgggg | 84780 |
| atagtctctt | ctccggtcgt | ctccggcgat | cgtaatcgtg | gattgggtgg | ggaggtgctt | 84840 |
| gtctctgtaa | aacaattggt | agcccaaatt | attataataa | aatatgtatt | gaattcggcc | 84900 |
| cacaaataaa | aaggaaatgg | gctcaatagc | ccagttaccg | tcgtcacctt | tcggttccta | 84960 |
| cgcctactat | tttgcatttt | aggcttttta | gccatctacc | cttctatttc | ttttcctttt | 85020 |
| tattcacagc | ccttagtttc | tgataaacc | caattttata | tttcagaaaa | ttacgttaga | 85080 |
| aaccaatata | ttttcccta | gttttcttca | agtttttttt | tttttttttt | tggtttttca | 85140 |
| aaataagcaa | aatgagggaa | tcagggaaga | gaatttgag | ccattttctg | atataataat | 85200 |
| aacatataac | caaaagtaaa | tgaggagag | cgaagcacag | gtgaacaaag | aaaagaagaa | 85260 |
| agagagagcg | agaggggaag | atgagtcaaa | caaaaggaga | catacagatt | tattaggggt | 85320 |
| gatggatgat | gcagaggctg | aagtaccgtt | gttcatcatc | attctgctat | tctctccatc | 85380 |
| cctaaacatc | ttcccactgt | atatacaacc | aaacaacaac | caatgtttag | gttttagcat | 85440 |
| atccttgttt | gaatctgtag | taaaaataga | gtgagtgttt | tctttttacc | cttcaggctc | 85500 |
| tctctcgttt | tcacgttttc | ttaacatctc | agcgtttcgg | gcttcggctt | catctctgcc | 85560 |
| catcatagca | cgttggagat | tcattcgggt | tcccatttca | gctaggtccc | tgcgcatgca | 85620 |
| cagaaagtcc | catcatgaga | cttggtgaga | aagctttatt | gctcttcttt | gatagagtga | 85680 |
| gtgtttttacc | tatgggggtg | tggtatat | gggaacccaa | atccttggtc | catgaatgga | 85740 |
| tctggatgca | tcatattcat | acccccacca | aatcccatgt | ccattgggtt | taatccgtaa | 85800 |

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| | | | | | | |
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| aagccattga | agccagggtg | aacaccgttg | aagcctgggt | gtacgccatt | gaagccagggt | 85920 |
| tgcatgccgt | tgaagtactg | cggacctggt | cccatttgca | tcatatagtc | agggcctgct | 85980 |
| agatctggca | caggattcca | ttgcatgtct | gcaataaatc | acataaacia | accatctttt | 86040 |
| agacctccca | ttcgattcac | atagacttcg | aaactgacaa | tgtattgcct | tcagcgtagc | 86100 |
| aaagaaagct | tttaccattc | ccaggcactc | ttggtttcct | tttcttcttt | tttcctgtat | 86160 |
| agagacaata | agtacgtatt | acattgatga | atgacaacia | gggttcctca | gtaattgaaa | 86220 |
| aaaaaaaggt | tcatgtgagg | tccagcttga | ttaatctcag | tagggaaatc | tgaactggac | 86280 |
| tatcagtcac | caatcattcg | caatgtccag | tgaagctaata | attagtacat | ctttatttta | 86340 |
| cctggctctc | cagcagcaac | ctgctgctgc | atttcttctt | tgggggcttg | cgtattcaac | 86400 |
| tttgacactg | ttgcttcttt | cacaatcacg | gacccttgag | tgctttcaca | tgcatcaact | 86460 |
| ggcttttcta | cattcacttc | tgcagatgca | cgaggggcac | ttgtgatctc | tgcaacttcc | 86520 |
| attggcgcct | ttaaagttga | agcatcatta | ttgttactaa | gtactgggtt | cttctcgcct | 86580 |
| ttagatgcaa | cagatgtagt | aggagataga | gccttgggag | gtggacagcg | tgcagactcc | 86640 |
| aaatctatat | tgtccatgat | aattcagtag | tgaggactaa | tcaaaciaag | tttaaaaaa | 86700 |
| catgaattta | aaataatgac | ggacctggga | tatggccaac | gctgcccaca | ttctcagtcg | 86760 |
| tatcgtttcc | agcttccaaa | atacggttta | tggtatccct | gaggggtcttg | tttggtagaa | 86820 |
| ggtcgtcagc | aagtacatct | gatcttccac | aaacacacat | tgactttgaa | ataatgtgat | 86880 |
| ctctgatacc | tgaatcagtg | aaaaaggata | ataatgtaga | actggaactg | acaacgggtca | 86940 |
| gaaaagggtt | ttgtggaaca | gcagaatgca | ttaaaagaac | ttacacttgt | cacagaagct | 87000 |
| cttgtaacia | catttgcttg | taagcgcagc | atctttcatc | acttctttgc | ataatgggca | 87060 |
| ttttagctca | ggtggaagtt | ctcctacaga | acgtgttggt | gatggcaatc | cctccatttc | 87120 |
| cttctcaaaa | gcatccctga | atttggtgaa | gacaciaaia | acatttaaac | tataatcaat | 87180 |
| atatgtgaag | aagtacccaa | tagcaacatt | cccaaactaa | ttcagtacia | cttactcatt | 87240 |
| tggtttcaga | actgcaactg | cgccacttgg | caaggaataa | gaaccatctg | gggtcgccat | 87300 |
| caacatggac | ttggggatac | cagtaggtgg | cttaactctc | ttaacatcat | agttagggtc | 87360 |
| tccatttggt | gggcaatgct | gaataaaatg | tcctgagaca | gcaaagaaaa | tgctctcaac | 87420 |
| acttcttatc | tattatatat | ccatctacia | aagtgagaga | aaaataaaga | ttttcagagc | 87480 |
| tgacatacca | gggatattgc | aacgatggca | cacataacct | ggaggtggcg | ttttcctttc | 87540 |
| cattcctatc | cagccagcaa | aaccaaacta | agtatcttac | aacttgagca | aatagaacia | 87600 |
| aaatataaaa | tattttgaca | gaagtaaagt | ttttgtatac | tgtattttga | cattccagaa | 87660 |
| ttcaacaaaa | atcaaagaat | aaaagtaagt | ataagttacc | aaaaccacgt | ccattcatcc | 87720 |
| ttccaggcat | accctccca | taacctctac | cagctccaaa | agtatcttga | ccttgtctgt | 87780 |
| tacattgaat | aaatataaga | ggtctgttaa | accttctcac | aaaatccaac | agtttcacct | 87840 |

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| | | | | | | |
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| gcaccatttc | tggaagattg | cttaccgttg | ttgccagtca | agtgctggag | tgtcaatcag | 87900 |
| cgcctgaatt | ttgctttctt | catctacttt | gtcgtctgcg | gttgcaagat | gaggacgtgg | 87960 |
| aataatatgc | tgggcatctt | gggtatcagg | aatggaataa | agatcagtc | caaactcgtc | 88020 |
| atactcatct | tcaggctaag | aggtgaatac | ggatgacatt | agtacttttg | tagtagaaga | 88080 |
| aaattaggtg | cagtcaatgc | caacagaagc | cgagaaaagt | tcactataat | caacttaca | 88140 |
| attcagcagc | agatggatca | gcaacaggaa | aattggtggt | ttcagcctga | acgtcttcca | 88200 |
| ctttattctg | gattctaggc | ctgcaaagtt | aagatatttg | catcattgag | gatcccgaag | 88260 |
| tttcttaaat | ccgatagtca | gacaattaac | ttatgtttag | ctaaaacgat | gcaccagtaa | 88320 |
| aatgcaatgc | ttttaatatc | atgtctat | aagtttaata | gctaaataag | tagacaaaga | 88380 |
| atatagaaac | taaagatc | | | | | 88398 |

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 <211> 87394
 <212> DNA
 <213> Arabidopsis thaliana

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| <400> 6 | | | | | | |
| aagctttgaa | agctgcaaac | acaaatcctt | attaaaccga | tcaggctcgcg | tagcaatcca | 60 |
| ttgaccaa | attgataaa | agcaggacctg | cgttctccaga | gttcgatgga | ggacctcata | 120 |
| ctgcagctgt | ctgtaacgag | gcccgcgaagc | aaatcccaac | aacgccataa | taacatttgg | 180 |
| agaaaacaaa | attgctaaat | aaagagctct | cccgatcaga | acaacaccct | tgaccgcaga | 240 |
| aaacactaaa | gacgagagaa | cgatagggaa | gtttatcgaa | ctcctataag | gagaaatgtg | 300 |
| tgaaggagaa | tagaccacag | gatttggaac | caccctttgc | gcatacgcca | cttgtctata | 360 |
| ggtaagagcc | aataaaccag | gtaacaagaa | gtgcgaacgg | gctaaagaca | agctacacgc | 420 |
| ttgagcaatc | tgacttatcc | gaggtaagtt | ccaactacga | ctcagagtta | ctctctgtac | 480 |
| aagccttccc | caagagactt | gagcatgttg | cttaactaca | ttactcgcaa | ctgcaatcga | 540 |
| atagctccta | cgcgcaagct | gatgatgatt | actacctaaa | aaccttcctt | taacattatg | 600 |
| aagaagaccc | aatgtgtgat | atccattact | ctgaattctg | aattgtggca | actttacaga | 660 |
| aacattaata | gctgttctat | tattctgatt | cgaaaacaga | gttctactaa | tcactctaga | 720 |
| gatcaaaaat | ctgcaaaaaga | aaccaaaaacc | aaaccacccc | aatgaagatc | taatcaaacg | 780 |
| aagacttttg | agaaaagttc | aaaactttat | aaacaaaggt | tcaattttta | aacatagcaa | 840 |
| tcaatttaag | caatctccgg | ctaaaagggc | aatcaaaatt | aatcggatta | gagattcacg | 900 |
| agagaccctg | aatatgagat | tagagacgaa | ccttgagatt | agggatcatg | cgagaggaga | 960 |
| cacgcaaaag | gttgagtgtt | tggaatgatc | tttaaaccgt | taaacggttg | gagcataatt | 1020 |
| tcacgatttt | agcgattagg | gctgaggaag | ctcttccttc | gccggaaaaa | gaagggttctg | 1080 |
| ggttttagga | gctgaagaaa | gatacggaga | aagagaagtc | agtgatttgg | tgcgagagaaa | 1140 |
| agtggggccc | ataaaaaaaaa | cctcgtgggc | ttcacgctaa | aattttat | gtcggcttat | 1200 |

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| aaataaaaag | cttggttagat | agaaattaaa | aatatatgga | aaattctact | tttccatagt | 1320 |
| tttcacagag | gtaattcact | aatttcgaat | tatttattta | attattttga | cttattttatt | 1380 |
| ttatatgaaa | acatacttat | ctttccgtaa | agaaattatc | aattgttttt | gtgtccattt | 1440 |
| tcccaactga | aagtgctaaa | taatttggtg | tgaaaaaata | atttcacatt | tttataataa | 1500 |
| caaaatttaa | ttttggtcga | tactccctct | attcattatt | atttgatttt | ttagaaaaaa | 1560 |
| aattgttttt | aaaaagttga | tttttaagtt | ttctagacac | tatttttagt | tattattgat | 1620 |
| gaattttaaa | ctttaagaca | aataattatt | ggtttagaat | tataaaaaaa | tctacatcac | 1680 |
| aaaaactaat | atattttata | ttagttttta | tatgtgtttg | tgtgtttttc | tagaaaaatca | 1740 |
| attaaaaaat | aacagataga | gtaataagta | acttgaccag | ttaaacaaaa | aaaaaaaaac | 1800 |
| cttaaaagag | aatatggtaa | ttgcaaaaga | tggagagaca | cgattgattt | atctgatgtt | 1860 |
| aatagttcgg | gtagataggc | gcaatcactc | tctggccctt | atgatcccat | gatctattta | 1920 |
| aaaaaaaaatt | ggttgtaaaa | tcttaaaaca | gttgctgcct | aagcttttag | ttagggttctg | 1980 |
| cacatgccct | agcttggtgt | acactctacc | atccctaaat | acatccattc | catattttcca | 2040 |
| tggatctaaa | ctctcttttg | atagtttttag | tcttcatggt | gaagtagagc | aaataaaaaag | 2100 |
| gaaagaatag | agtgcatcaa | gatttcgtca | agtattagtc | actccaacaa | taattcgtcc | 2160 |
| tcagcaacta | atctaataaa | tacgaaattc | ataatttaat | tcttagtatc | cacccataat | 2220 |
| tcaagatgtg | tactttcttc | actaagttcc | tcaaacctat | ctaacaaaag | ctgaggatcc | 2280 |
| ccatagtatc | atgaaacct | gcagataatt | tagagttatt | aatgaaatca | tttaaaagaa | 2340 |
| aaaaaataaa | cagtcctaaa | tcctaataa | aatccaagtc | aaagcaagat | aaacaatgaa | 2400 |
| gaagttatta | agagatgaga | tcacaacagt | tgttttggaa | tcctctaaag | gaagataata | 2460 |
| agaagaaaaa | atcctctagc | tcaggaagag | gtttcttcaa | tactccttta | ctcgacactt | 2520 |
| agccactttc | cataattttc | ttcttctcac | agactctcgg | ctttctcccc | ttagtcctca | 2580 |
| atttcctttt | catgaactga | attgggatct | ttaatctatc | agaatctacc | tttctcttaa | 2640 |
| gacattcagg | gatacatgaa | agggtagtct | atgacagggt | tatcatcaca | caacctttga | 2700 |
| ctcgccatcc | caaacatgta | tcctaaggca | atcccgaactg | gaacagcaac | aacatgccac | 2760 |
| tttcacaaat | cttcatcttc | tcccaaactc | tagcctttct | tcccttagtc | ctcatttcct | 2820 |
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| gaggaacatt | gtatgcacca | gcagccatta | tgctctatct | tgcttggtta | ttcttggtta | 2940 |
| caagacgagc | tacaacataa | cgaccaacaa | atctttccat | gaaacctaaa | agattttaca | 3000 |
| cgttctccat | caagacgtat | ttgggcttca | agtatagtct | atgatattca | tgaaaccgtc | 3060 |
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| cactaagtcc | ctggcatgga | agacccccac | atacaagatg | cacatattcc | taaaagaacg | 3180 |
| acacaaggtc | gaaaagttac | gaaaagtggg | gaacaagaaa | tatttgaggg | atttacatgt | 3240 |

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| | | | | | | |
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| acgaattcct | taagttttta | tttgtatttt | ctaataaac | catatacaga | ttagaggaca | 3360 |
| acatgagaag | gccaaagcag | taatttaaaa | aaccttacc | caatccatca | tacggctccc | 3420 |
| aagtatcttc | ttctgatttg | tattccttct | aatacaccta | aaaatgatgt | aacataagag | 3480 |
| aaagttgata | tatagttaat | cccatgcatg | atgactagca | tttaaaaaga | ggactcctat | 3540 |
| aaacaatata | cgtgctgatt | gtcttgcaaa | aaaggcaata | gcacgagggt | ttatcttttt | 3600 |
| catgtaagct | cttttatttt | ggactgattt | ttttccaaag | aaaaccgtac | agttctagtt | 3660 |
| taaatagata | attttatttt | accgttcata | taaaaaaaa | gccaaaaata | aagtaatttt | 3720 |
| accaatgtta | tctttgtaac | actatgtcac | aatttaaagg | ttacttctgt | gattctaaat | 3780 |
| atattgggaa | caattaacaa | acttcataaa | ctatatgagc | aatttcattc | gaatgtttta | 3840 |
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| taaaggatat | caatataaaa | cggatatatt | ttgattcatg | atagtagaga | atatataaac | 3960 |
| tctttggagg | aaaataagcc | gtgtgtcttt | gtgatactcg | gaaacttaaa | caatattaga | 4020 |
| atcaatgtga | tttattttata | gaaaaaggaa | taaggctttt | aagcttcaat | caaacgaagc | 4080 |
| ttatagctga | agatattaag | aacttgttgt | attcacataa | agcaaaaaag | atgaaacttg | 4140 |
| ttcgtccttt | attgtacatc | taaaagacta | aaaatttatg | ctcataatgt | tttcttttgc | 4200 |
| cttttatatt | catattacat | tatacatgat | cctcctttct | tttggcgcac | ggcataatttt | 4260 |
| gtcaaactct | attacaacat | tgattctaata | cgatctacag | ttgaaactag | tgaatcgaat | 4320 |
| tttcaggtag | aagttaaatt | tgatttgaaa | tgtactcaag | tttatgctat | ctttctcata | 4380 |
| taatattcaa | tatttttagac | tagttatatg | ttgtttatgt | cgaagattgt | tatttgtag | 4440 |
| gtacgaaaaa | tttatatgag | ccaccacata | tatagttgta | atcgaccatt | ttctgtaatt | 4500 |
| tattgggttaa | gatttaagaa | gactagaaga | gggaccgatg | tcactagatt | cacaaactta | 4560 |
| gcaacttaaa | tttcatgaa | tccaagttac | atattaaacc | aatgacaaga | gccgaagcac | 4620 |
| ctcatgaatc | caaaaaatct | acgtaggacg | gtaacttttg | ttgatcctga | gacaaaggat | 4680 |
| atagccgaat | atgagttgca | accaaactct | aacttctctc | tatcaacgac | gataatctta | 4740 |
| gttgcaacat | gaaaaacatt | cataaacaaa | catttgccgg | ttctccttta | gtcgcggaat | 4800 |
| gatctctttc | caatggccag | agacatgttg | tggtaatcaa | gcctagtact | tctttaattt | 4860 |
| atggttccga | gaaccatatt | tgaatgtgta | gattcacctg | tccatacgtt | cactttcgac | 4920 |
| cttaactcca | ttttcacttt | ttagaatctt | gaatcctgac | tccatgctat | gttcttttaa | 4980 |
| tttgtttgta | ctttggagaa | aaccaacatt | aatttccaat | agggcataat | ttgagatttt | 5040 |
| gttttttaat | aataaatagc | tactaatcat | gcatgggact | tgttgagtat | tttatcgata | 5100 |
| ttgagatcta | aggtaagaat | tctgttcttg | cattgcatat | atttttgagt | ggcatttgat | 5160 |
| agattagaca | cacatatatg | tctttatagt | aacatatgaa | taatcttttt | tctgtaaaca | 5220 |
| taaatgatgt | tgaatgcaaa | tcagtatata | tttatcggtg | tctatactaa | aatcatatat | 5280 |

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| | | | | | | |
|------------|-------------|-------------|-------------|------------|------------|------|
| gtatattcaa | atcataaagt | aggaagcagt | gtgggccgct | attctactgg | cttccactac | 5340 |
| tgaatttcca | taatatatag | ttcttaatcg | aaccaacaaa | aagttgaatc | catatggaca | 5400 |
| catatttata | catggatatg | tacgaacata | aatacatgca | tgtatccaga | aaatgtgcaa | 5460 |
| gtttgcaagt | ttggacataa | atgtaactat | gtaagagtaa | cggcactatc | acaaacaatt | 5520 |
| aggttataag | tgttggtttt | gtgattgtta | aaattaaaaat | ttatgattaa | acatgaaaaa | 5580 |
| aacaactcta | taaaaacaac | aaagaacttc | atatgacaaa | ccaccaatta | ttatgttctc | 5640 |
| taactttaat | aagtgattaa | caaagatggt | accaacgaca | aaaatatgta | tatatatata | 5700 |
| ttcaagaaca | atgacaggaa | caaaagggtta | ttcaacataa | aaacaacca | tatatgctaa | 5760 |
| attcagcaat | aaacccccct | taaaatatgt | aaagaagaag | aaaatacatt | aaaaattatt | 5820 |
| gttatgcttt | agagtctcca | agctgaattt | agcatatggt | cccatccgtc | ttgacaacca | 5880 |
| caaccctctc | tctttaatca | cctatatata | attaaaaagt | gaaatttagg | ttaattatta | 5940 |
| catatataac | atgagagtat | gtaagttaat | gtttttaaaa | atatacttat | ctattagttt | 6000 |
| atgatagatt | attatcccaa | attttctaag | ccctaaatca | ttcttgcttt | cgtagttggt | 6060 |
| cccctccaac | actattgttg | cctctgcccc | cctttgaaga | gtcaccttct | tcttctccca | 6120 |
| tctctacttt | ttctccaagt | aatgattcaa | tctttgatca | tgacttgtga | attttatttt | 6180 |
| cttttatttt | tatgctaagc | attattaaat | aatatcttaa | tgctaattaa | gaaccgtatg | 6240 |
| atatacgtaa | ttcaccttct | ctacctgaaa | ttgttgcccc | caaacgttgg | tgtccaaaaa | 6300 |
| tcggctgttg | tttcgttagc | caccggaaac | gtgcttgata | ttgggacgag | acatagacca | 6360 |
| tgtcctctta | gttcgtgatt | ctcattttca | tcttgactct | tcgatttacc | agatatctac | 6420 |
| atgaatccat | actgaaatta | gtacttattt | aaccatgatt | atagcacgaa | gactccaact | 6480 |
| tggacaaaac | taaaacacta | gatcgtgtat | tgaacctgct | gttgttgttg | gttcgaggca | 6540 |
| ccttgtttca | tgtatggagt | gcttagaacc | tgtatttaaa | aaacattaat | atgcttaaaa | 6600 |
| atgtgctcat | ttctaggggt | ttatgaattc | agtgagttag | gagagaaatc | acaagaaacg | 6660 |
| tacagtgact | tggtcgtgaa | ggaacttgat | gtactctata | gcttcttgga | gaacagatgc | 6720 |
| agtatctgtc | tgaagtttaa | cccaaagata | tacaaaataa | acaaactaag | aagctcaata | 6780 |
| cataaccaag | ggaaaataaa | tgcttttggt | tgtatatatt | aagccatata | aaataaagta | 6840 |
| aacacataaa | tcattcacct | ttccgaaagg | tgaaactagt | tgttgtaatg | aagttatctg | 6900 |
| gtcccttaga | ttctcttttc | tcacctgtta | catatacaat | ccattttatc | caccaagaaa | 6960 |
| ttgaattaaa | ataaaagggtc | ttaaacaaat | cttgaaatat | gatcatgtac | cttgaaagtt | 7020 |
| ggcaacggtg | aaggcgtggt | gactctcggt | ttcttcgccg | cagattcatt | atcctttgct | 7080 |
| ctcttcaaag | actcactctg | agctcttgct | ttcagattct | tctcaacaaa | aataaataaa | 7140 |
| taaataaatt | caataatata | gccacaaaac | ttatatagta | gcaaaattat | tttgacatat | 7200 |
| atgagataat | ttaccttggt | tttgtcctcc | aaacgagtag | atattatctg | cggagtgggt | 7260 |
| acaaaattgc | tcggcgctcg | gttgtttaag | ttagtgggtg | atgaagaatt | ccaaaagggg | 7320 |

| REN-00-118 seq listing ST25.txt | | | | | | |
|---------------------------------|-------------|------------|------------|------------|-------------|------|
| cgagagtttg | cgttggttaga | gaagctgtta | attagtccat | aagctacttg | atgatgagga | 7380 |
| tttgtcctat | tagcccaaga | aagttgagga | tcgttgattg | aaccacttgt | ggtggagaca | 7440 |
| aagttgtatg | gacttggttc | gggatcgtaa | aaggttcgta | tcaagcttga | ggacgaagaa | 7500 |
| gttgatggag | atgaagaaca | agctggatta | agtatataag | gtgaagtagt | tgtggataag | 7560 |
| aatccttggc | catgatcttg | atcttgtgag | ctccttatga | agcttgagtt | taagtcttct | 7620 |
| tgtctgaaaa | atacaaaaca | agaacaaaag | agatctcatg | attattatta | aaaatcttca | 7680 |
| atcttgttca | tcaagaaagt | gaacaaaaaa | aattaagtta | gggtttttct | ttaagaagtt | 7740 |
| tacaaaatgg | tttggttcca | atctgaagaa | caatttgagg | aaaaccctag | acccatcatc | 7800 |
| tgcaacgtcg | agtccatcgt | cacggtactt | cctccactgt | cagaatccgc | ctctcgctgc | 7860 |
| ccgaaaacga | tgttggttgt | gtccgtacaa | gtcatcctag | atttgagatg | attctcttgc | 7920 |
| gagctaaaat | cattggaagt | gatagccgct | ccgaagcatg | gtgacaagaa | atgatccgaa | 7980 |
| ggagacataa | cgctccttgg | cgagttccac | cacgcgccac | ctccgccacc | acaaatcgat | 8040 |
| gccgtagctt | taaactcctc | cgccatatta | agagaatcag | aaagttttag | tataagcttt | 8100 |
| ctactagatc | gttgctatac | gaagggttaa | gtttttatat | atatgagttt | gttgatgtg | 8160 |
| atatgaagag | cataagtgtg | aaattttgat | atatgtttat | gaggggtgtg | atgtttatat | 8220 |
| aggcaagtac | ggacaagtgt | gtggaaatta | ccggaattta | gttgacattt | gaagacaaaa | 8280 |
| acttatatca | tcataacatt | cctatgtgat | ttttttaatt | aaataatctt | gattttaaat | 8340 |
| tttttcctta | agctaaatat | tttatttgac | agaaagatgt | tgtaataata | gtgttcctaa | 8400 |
| tccctcaatt | ttcttctatt | attataagaa | caactgtctt | tgtgagattt | gtttctttgc | 8460 |
| tgcttagctt | ttcgaagaag | tgataatgat | cctcatttta | taaatattta | aatattttaat | 8520 |
| ttgagattag | ataggtgttt | ggtactatta | tgcaagatgc | caaaagggga | tactatttat | 8580 |
| atatagacat | tatatctaac | ggtaaccttt | gattggttgc | catcaaattc | tacaaatcga | 8640 |
| tcgtttatat | taagtgggtca | gaaatagaaa | acatatcacg | attttgatta | aatcagtttt | 8700 |
| tagtaattgt | atagacaaaa | cacgaaaatg | actgattata | gtctacgcat | gcgtatatat | 8760 |
| ataaatgtac | ataaatatga | aagactaaaa | ttttgaaact | tgatattttt | ttattacttt | 8820 |
| catgcttcca | tacatgattt | ttatcagatc | actttagtaa | gcttaggaaa | aaaaaaaaact | 8880 |
| aattagtcta | tgcaagcgta | ttaataattg | ttttattatt | ttggtaatta | taaacgacta | 8940 |
| accaattttt | gaacaacggt | tcttctaatt | aattatccat | actttcatac | agtaatgatt | 9000 |
| atcttgaagt | taaaatatat | gttttctcaa | tcgcatttgc | taaaaaaaac | tttaaaacat | 9060 |
| atatcttcaa | ggattagact | cacttatttt | caaaagtaat | attcaaagat | tctttcgaga | 9120 |
| taaaagttga | gtcctaggct | agctcgttca | ggtttgagtt | ttcagtactt | gggagggata | 9180 |
| tttatacttt | aacaggtatt | actattacta | aaaattagtt | ttagatcgaa | aaagcgatca | 9240 |
| taggaatttt | tattttttta | atagacgatc | aattgttttt | agctcgattg | gaaaacgcaa | 9300 |
| aattaatggc | aaaacctaga | gttagcactt | gatatgagtt | cgatatttat | ttcattgtcg | 9360 |

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| | | | | | | |
|------------|-------------|-------------|------------|-------------|-------------|-------|
| atcggattct | ttcggttaaa | aatagtacta | taaaataaga | tttgttcttg | tggcttgagg | 9420 |
| ctaaagggat | aaatggtata | tgatgacgat | cgtcgatcga | tgctgagttt | cgatctgtgt | 9480 |
| gtcacgtcac | cgtttctgga | cctattgtgt | ttgtgacttt | tttcacaatc | tctttatacc | 9540 |
| aaacggctct | tattcttttc | aactagcttt | ttctaaattc | cgtaaataatt | ttattcttct | 9600 |
| aataaatttg | ataagtcaat | caattattgc | actttaatta | caagtcattg | ttttgttttt | 9660 |
| cttcttttct | ttaattcttt | ttccatttta | tgtgatagac | tgatagccac | acaaaatatc | 9720 |
| aaaaaatgga | tttgttgaac | ctgataatag | taaccagttc | tgttctttat | gatcattata | 9780 |
| cggctcgagg | catagtgaac | cgggctgtgt | caccgtccat | aaaatataca | agttttatca | 9840 |
| aacgataggc | atagataata | aacataattt | caccgatatc | catgtatata | atatttatat | 9900 |
| atctatctcc | tttcaaaata | aaaaaaaaaa | ttggacatat | tctaagctaa | attgtgctag | 9960 |
| tatcgttatt | acgaaattca | aatttacgtt | atgtatcttg | acaaaaaaaa | aattgttatg | 10020 |
| aatgcttgaa | gaatggtatt | tttacgttac | atgtaataca | aaaaagacac | taatcattta | 10080 |
| tggtagtcca | atgattcaaa | aatatatatt | gtaattggga | gaccattggt | catggttagt | 10140 |
| agaagtgaag | gtcttaaatg | tattcggcaa | aaaaaaaaaa | atatcaaata | aaactcgtag | 10200 |
| atttttattg | ttcatggcta | ttcgaattgt | gaaaagtctt | aaatggtaaa | aatatgacac | 10260 |
| aaaaatatca | aatgaaactg | gtaatatatt | attggataat | ggctattgag | gacaaatgaa | 10320 |
| gactataaag | gccccaat | atctaattat | tattaaaata | ttaattaaga | actaattgaa | 10380 |
| tttttttctt | aatggtctct | ctatgcgaca | caatgcattt | tgacttaaaa | cttaaaagag | 10440 |
| ctttgaagca | ctgaaatata | gagacagtta | ggtcagatcc | atgcgactga | ctagtaagtt | 10500 |
| ttcatcgtgc | aattaaaatt | aatttttaata | taaactaaga | aagtgtcaaa | acaaatttga | 10560 |
| tcaatttgct | taagcccacc | agtccactcc | gccaaaaatg | aaaaaaataa | taattcatta | 10620 |
| ttgcaacgtg | actaactttt | tattttattta | tgaaaacact | tgtttcgttt | aggttgatat | 10680 |
| cgataaaata | aaagttatga | aatgaacgtc | aaaagaatgt | gtcacagcca | ccgtatgaca | 10740 |
| acataagtta | aatccgaaga | atctttgtca | gcccatcggt | tgttttctct | aacggctctgg | 10800 |
| tcgatcccat | cgatatgtac | accgacactc | ctctaagctc | ttgtcggctg | atatttggtg | 10860 |
| tttattatta | tcggacacat | atgctaaatt | ttatagtccc | caatcttatt | cagctttctt | 10920 |
| ccattttctg | tttagtatat | tcatggtggc | aacatatata | gttgaatcaa | cgactagttt | 10980 |
| tgaaatatac | cgctttttcac | aatgcaagta | tacgaacact | ttcggatggt | ggagtaaaac | 11040 |
| ttgatcacga | acaatgagat | tcatgcactc | gttgatgaa | aaaaacttag | ttgacgaaga | 11100 |
| attgctccaa | aatacgtatt | gctatatacg | tatataaagt | gatatagaca | cgtatatacg | 11160 |
| attagaagca | atatgaacat | gtataaaatt | taaagtaggt | gaaggaaaac | gacaagtagt | 11220 |
| caaaaaatag | gaccacacg | gcaaatatga | gtggagactt | tgtttggcgc | agatagtcgg | 11280 |
| ataagtgtca | gcgactcatt | cttttcttca | aaccccaaaa | tcaaatcatc | atatgtccta | 11340 |
| acaatttttt | gttttgattt | tggaaaagca | catgtttctt | tgtttttatg | tttatgataa | 11400 |

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| | | | | | | | |
|------------|------------|-------------|-------------|-------------|------------|------------|-------|
| cattcttttt | acacgtaagt | aacgtaatgc | tgtttttggg | actcacggga | gctcatatgt | 11460 | |
| aattattatt | ttcatgtagt | tcacataagt | tcgaaaacta | ataaataatt | aagttatcta | 11520 | |
| aaaagagtcc | tagtattata | tgaatcaa | tctcaaaatg | tcccatataa | caaattatgt | 11580 | |
| caacaacata | cgtactaatc | tcttttgcaa | caaactcagc | cttaattttt | taaacaaact | 11640 | |
| aaacatatcg | aaatttaaaa | ggaatacctc | atattaaaat | atactataat | cattaaaatt | 11700 | |
| gatataaata | ttcgatatat | tgatatatat | aaaccaacaa | aaaaacccaa | gtaatatggg | 11760 | |
| aattcaatta | atactgttac | taaagagtgt | atatcatggc | gagatgtggt | aaaacttgta | 11820 | |
| tagttacgta | atTTTTtagt | gatggtgcgg | ataaaaaactt | cgaaccatta | attgtcaatt | 11880 | |
| atacagataa | tttgctatct | catacataaa | ctataaaaata | ttattatgag | gcttttaaca | 11940 | |
| tgcaaaagat | attagaacac | aaataatgtt | ttgttttatt | tttattgggt | gaaatgaaag | 12000 | |
| tcactgaaga | ataacagtcg | aagaatacaa | gcgtaacgca | tatttctctc | atgacatgcc | 12060 | |
| atttctacat | ccgattttac | atatcagttg | tatttctatt | tttatttatc | tatcaaattt | 12120 | |
| ttattgatcg | taatattata | tatctcatta | tctcatacta | tgtaggatat | atgtcatact | 12180 | |
| gacgtaagga | tgaaatgcag | aaaactacaa | aaacgaagct | tttttttttt | gcacgattac | 12240 | |
| agaacgatga | tgatacgatc | ggaaaaaatc | atcatggccg | tgacagacac | gtggggtagt | 12300 | |
| gagctccatg | aataaagaaa | cgaaattgta | ttccttgtag | caatgacggt | caaaagaaaa | 12360 | |
| gcgctttaat | tagtccactc | ctatcttaag | ttatggttat | taattatgat | ttacggtcag | 12420 | |
| tttaattatt | cgcttaatta | attacagttt | atatgacaaa | atcaacataa | tgttcttatg | 12480 | |
| gtttctttgg | taatttatca | atttaaaatt | tattacatgc | cactcattct | cataatagat | 12540 | |
| gtcgcaa | atg | taatatcaca | acatttgtag | agtgtttgat | gacatgacaa | tgacatagtc | 12600 |
| ataaggtgtg | tacatctata | ctttgcatct | tgtttttctg | ttgaaacctg | aatttacatc | 12660 | |
| gaattcaaat | atttataaaa | tggattgtgt | atgatttgct | acttcttatt | tttcatatag | 12720 | |
| atatattaat | ttacatgtga | catataatta | cttaacttat | atctattata | gtattattat | 12780 | |
| acaactagct | aactaaaagt | tacaaatatg | ttatatactc | ttagctgaat | cttttgattc | 12840 | |
| atatatgtta | tatattaatt | tgtgtccatt | tacgatcaat | ataagttatt | ttgtcatggg | 12900 | |
| gaaattaagg | agttgttaca | ttttagattt | tacttgatg | tttttttttg | ttcacaattc | 12960 | |
| atgcaatcat | ctaactgata | aaaacaaatt | tggcaataaa | ggtaagattt | taagtttctg | 13020 | |
| tgtttgtaat | tttgcttggt | tatttttatc | acgaattcgt | ggagcaaaac | gaattttggg | 13080 | |
| acagcaccgt | tccaagaacc | gtctacatga | aaaatattta | catgaagtcc | ccgatcatca | 13140 | |
| ttatgcaatt | ggttctaccg | gtaccacaca | ttatcaatac | aactggctaa | aaactaagca | 13200 | |
| tggtcagact | cttagtaggt | gggtgtccaga | atactgtggg | cgatcaaact | aatgtttttt | 13260 | |
| atgaacccaa | aatgttataa | acttgacaca | caatttcttg | gacgccaaac | acaaaaatat | 13320 | |
| gtaaattagt | catgtttcct | atatcaaaat | ttgaatacgt | gaccttgagg | cgcactactt | 13380 | |
| ttgagaactc | tcatagacac | caagagaact | acatatgatt | aggtaaaaaac | tgagaattaa | 13440 | |

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| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| ttgggactga | gaaaatatgg | aattattcac | atgtaataag | tcacatttgt | tttgtagaca | 13500 |
| ttctacaaat | tatataacat | ctaaatatgg | aacagtat | tatggttcat | gaacttataa | 13560 |
| acatgtaatg | atTTTTtatt | tggctaaaac | atgtgaaact | ggtgatagtt | gaaaaagtac | 13620 |
| ttataaaactt | ctaattgtct | tctgagaaag | taattttaa | aaaaaactgt | aatcatttga | 13680 |
| cacgctaaaa | ttttggttta | tgtactactg | attagtgggt | gaccagtga | aagtagtagt | 13740 |
| cttcttataa | gttttacttt | tttttttaggt | aaagttgact | cctagtttat | ctcttattca | 13800 |
| atTTtatttc | ttgattacaa | ttaaagggtca | acgcagaact | caagatcaat | acgactcttc | 13860 |
| tagatatcgt | gccaagaaca | cgacaagagc | cgccccacgc | ttttactcta | gttttgtcat | 13920 |
| tttcatttgt | tctTTTTtgt | ttccgaaaaa | ttctaataaa | tatgaataaa | attcaaagt | 13980 |
| agtagtaaaa | cccaggatca | tttgaaagat | caaaaataat | ttattcta | cgaagattat | 14040 |
| gcctatagtt | tttgaagtaa | tagttgagat | ataaagagag | agcgatctct | tgctatactt | 14100 |
| ggatataaca | tttgcaacta | aaaagaatat | agtttgcaaa | tattgttggt | ttataataga | 14160 |
| gcatgttatt | taagtcaa | tacatacact | aataaaactt | gaataaaata | ataacatttc | 14220 |
| actaaccttt | gttttttctt | taaacatata | taaatcactt | tctctaacct | ttgttatgca | 14280 |
| aaaatattcct | acgttcctaa | aatacagtta | tatgttttaa | actctatacg | aaaatgcagt | 14340 |
| cattattctt | cttgagctat | tttgcattccg | caactcatca | ccttcacact | agtataagaa | 14400 |
| ggttacaagc | tctgatagac | tacaacattg | ataataaatt | gtaatcatct | tcatcatttt | 14460 |
| taaaataaga | ttatatattg | cccctatatt | aattgtaaga | acattttaca | aaatctgttt | 14520 |
| aaatgttata | cagtaattaa | taaaaccgtg | tataaaactat | acagtactag | tatctttttt | 14580 |
| tgttcacttt | atagacatag | taaattgtac | tataattaaa | ctttatgtct | tttttttcct | 14640 |
| atattcgtaa | gaacaacacg | tagtcaacat | taataattat | tatttttgggt | gccgcaatat | 14700 |
| atttcacttg | tagtctatga | ctaaaaacaa | ataaattatt | tttaatgaga | tgcgaaatga | 14760 |
| gataagtatg | cttgattgca | tcaggccgaa | attcggtaaa | cttgagaatc | tctattactt | 14820 |
| atttaatttt | catttgttat | agattttctc | cgtaattttc | gttttagtag | agaaagcaat | 14880 |
| catcataatt | tcgcagactt | ctaagaaggt | ttcgagagaa | gaaatgaata | aacaacgtca | 14940 |
| atgggtttta | gagtccttcg | ggtgtggtag | tctccatggt | cccacttgta | agttgtaagt | 15000 |
| caattccggt | ataagttgcc | aaaaactaat | acaatttgac | tcgttctatt | tcttactttt | 15060 |
| taggcactga | ttttaaaatg | taatgaaaac | aatatgagtt | aacattttac | tcggttgaag | 15120 |
| tttgtgtatt | acatttgtga | agtgacatca | ggaatgagct | ggatttgtga | acgagcttct | 15180 |
| cgcaaagctg | gagatcctga | tttgggttat | gcatgcatgt | ggagtctact | agaattgtgc | 15240 |
| tatttttaga | caaactatta | gaccatctcc | aacaatattt | tttttagtaga | agctctaattg | 15300 |
| aatttttttaa | tatttaatttt | gaaaattttta | tacttaagag | gttgtgtaat | gatttttaatt | 15360 |
| tttttatgtg | tccaatgcta | gacagactct | taagttagag | ttcttaaaga | attcaatttt | 15420 |
| tgaaaattat | tttagtttaa | atgtataaaa | aagttgaagt | gtatgaaatt | tgtgtttaag | 15480 |

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| | | | | | | |
|-------------|-------------|------------|-------------|------------|-------------|-------|
| ttaaaagata | tgaatatgat | tcatttgggt | acaacacata | tgattcattt | gggtgtttaag | 15540 |
| ttcaagagat | ttatttgagt | aaaataaaca | cagaaatttg | taaaacatct | tatctaatat | 15600 |
| tagcatagag | gagaagaaga | agatttgtga | tacatcttca | gtttaatcat | ataattgttg | 15660 |
| tttctatttt | gaaatttcgt | gttcaaattc | acatgacttt | agatttcttt | tgttcaattt | 15720 |
| atttgattgc | actatgccag | taagagcatc | attattgggt | aactcttaaa | ttagttctta | 15780 |
| ggctaagaat | gagatgttct | ttgcaatcaa | ttacaaaaaa | aaaatcctaa | gaattaatct | 15840 |
| aagagacaac | caataatggg | gctctaaggc | actaaattct | ggttttgttc | ggttcataac | 15900 |
| ttcatattgt | aatttgtaac | ttgtgtaaga | aaactcataa | atatctagag | tggactggac | 15960 |
| tataaatggt | tcttgtttct | tatctcggcc | catcaaaaac | acgaagccca | cgataattga | 16020 |
| ctaagtcgtt | ttatacagct | tttgaatttt | atgtattcat | cagtagtttg | accaaaaaaa | 16080 |
| aaaatgtact | catcaggata | aataatttgc | gacgtcgggt | gtcggacctt | ttgaagtta | 16140 |
| tacctaattt | gatttctatt | gattatcgaa | tttgtttcgt | ttactcagat | tcatattcag | 16200 |
| cacatacact | taagttaagg | atgattattt | ctaagggttc | aaataagggt | gaaatcttca | 16260 |
| cattcagttt | caaatttgat | caaattcata | ttgaattata | catgtgtatc | caatgaattt | 16320 |
| ttattgggat | ccactcaaat | tactagaaca | tcttgcttca | cttgtcttga | cttgataatg | 16380 |
| ctctttgaga | ttcttgaatc | ttaagcctgt | ttttttttaa | aaaagaacat | atttgaatct | 16440 |
| gtgttagctg | atatagaata | agagtaagaa | actcgaaata | ccagattaag | aagtatgaga | 16500 |
| gacaaaaata | gatggctctgc | ctcctgaaca | aagaagacaa | agacaagaac | cggctgcttc | 16560 |
| tgattcacct | tgaacgatag | aaagattaca | aagggttcgta | ggaaagatat | atattatcta | 16620 |
| ttggttagtt | gctaatttgc | tataagctct | tagtggtttt | cttgtaaaat | catctatagt | 16680 |
| atcataaaac | cttcttgaac | aacatcgacg | ttttgaactg | caaacgttaa | agattgttaa | 16740 |
| agggtccaatg | caaggcttgc | atgcaactgc | atgggcaaac | atttttctac | ttttgaatgc | 16800 |
| tcttcatctt | acgatgaggc | caacataata | aaccttcttt | cctacaaaat | tttctttgcc | 16860 |
| acgtatgaaa | agatttattt | ttgcaacttt | tttaattttt | tagaaagagg | atcgtgtgga | 16920 |
| taaaacgaga | agaactacac | ttatacactt | tcctctttct | aaagaagatg | caaaaaaaaa | 16980 |
| aatgaatctt | tgttggtaaaa | taaacttcgc | aggaaaatgg | ggttgttgcg | ttggcctcac | 17040 |
| cgcaaaatca | aaagagcatt | gaaaagagaa | atcgtgctta | aagtgaaaat | ttgagaagtt | 17100 |
| gtagaatgat | atcaaattga | gaaccttaac | gaagcactta | taatgaagca | cttgaggacc | 17160 |
| ttgagtaacg | ttttataaat | tgagattttt | ctattttatt | agatagtata | gtctttatga | 17220 |
| gataataaat | aactttttgt | tggtgttgac | tgttgaagtt | ctacaattca | attaagaaaa | 17280 |
| cgttatatgt | gcattaattc | ttgattctca | taatgatcat | catacggttt | tgtttatgta | 17340 |
| tatattgatt | tttgtataga | actgaggaaa | tggagatatt | ttacttttat | aggttttaga | 17400 |
| tattttccaa | agttttattt | ttaacacact | tttttattta | cagagctacc | caaaaacgat | 17460 |
| acttaataag | cttatataaa | tgaaaaatgt | tcatcgtcgt | acaaagtttt | aggggagaaag | 17520 |

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| | | | | | | |
|-------------|-------------|-------------|------------|-------------|-------------|-------|
| caagattgat | ttaacattgc | tactatatag | ttcataaact | aatataaatt | ttaggaagcc | 17580 |
| attattccgg | actggtatca | tttttttgtg | tgttaaaaaa | agtttttttt | ttctaaaaga | 17640 |
| aatggtttat | tatatcgtca | aagaattcta | aatgtaaata | gttttatatt | tcattcaaat | 17700 |
| ttatataaac | tttacaata | agcaatgaat | tttaccacta | ctttttttta | aatacaaaaca | 17760 |
| aacatgtaat | gttaaatata | ttttagtgtt | attagcgata | tgtttttcatt | gtttttgcag | 17820 |
| aacttcggca | atccattggt | ggctcaaggt | ttggatgact | cacatccact | aagtctagag | 17880 |
| ccattttcca | taacaacccc | atctttaatg | tctccttgcc | atatgctatc | acactcaaca | 17940 |
| cttttggtct | ttacattttg | cgcattcccat | gaatatggag | atctattttt | tctgcgtaaa | 18000 |
| aaattcagac | tggtatatatt | catccaaaat | aaatatatta | aactgagaat | ctattggctg | 18060 |
| caagatctat | tactttctac | cacacatctc | attatcgaaa | tatattacaa | catcacaagt | 18120 |
| ccataatcca | ttcacccgat | gaagaaaagt | taggtgggta | ataactaatg | ataaggcaat | 18180 |
| gtagtgcac | tctgaagtat | gctctgaagt | tatatatagt | gagtttggtg | taaattatac | 18240 |
| ctcaccattc | ttttgttgca | ttttcagcaa | tagtctgaag | aggccgctaa | atcatcactt | 18300 |
| gatcgatgag | ttgtgggttat | aatgatattt | gattttgtat | ttgcttggat | aattaaaaaa | 18360 |
| tttgaggggc | gagaaaaaaa | atcacatata | catgtgtgca | aaacttgcaa | ttaaattatt | 18420 |
| agaaaaagag | ttttatgcta | taatttaatt | taaattctat | gtcattttatt | taaaactgaa | 18480 |
| aataataatt | ctgctagtga | atgaattaaa | atgtggagta | atgtcggatc | attttaactc | 18540 |
| tcagatgttc | tctctgtttc | attattttat | ttgatgtttt | ggcacaccaa | ttaaaataaa | 18600 |
| attaaatata | gtttaatttg | aaataatttt | ttcttctaaa | acatcactta | atttaaaaca | 18660 |
| gaggaagtat | tacaagcttt | agttgggaaat | caaaataatt | tttaaatatt | tatttttatgt | 18720 |
| aattttctgta | cttcataatt | caatatagaa | actgtgtcat | tttcagttcc | gtttgggttc | 18780 |
| cttttttgat | cccacagccc | aagttccttg | taccattttt | cagacaagac | aaaagaataa | 18840 |
| cgtctaaatg | gaagactgac | ttaacgaaac | cttttaaaaa | gaagtaacga | aactattcat | 18900 |
| tagcatacta | atcaaaatca | gtaggcgaaa | tttggtgaga | agttttacact | gtccatgaat | 18960 |
| catgataatc | aacaacaaca | tttataaatt | caatacaatt | aatgagttac | tattggaatg | 19020 |
| agtctggatt | tttttttagat | aagtaaaaatt | tttgcaatct | ttatcttgat | tagtatttaa | 19080 |
| aatcaattaa | tttatgtttt | aagtgtaaac | taaaataagg | tagaaaaaag | agataaaaaac | 19140 |
| aataatgtgt | gatacactta | accatgattg | gtactttgga | tccactaatt | tatgttttaa | 19200 |
| gaaaatgata | ttccattata | atgtttcccg | gaaacaaacc | gtgatttgcg | gatgttacaa | 19260 |
| cgtcaattag | ttcaacatgg | ctttacttaa | ggcaaaagac | tacaaattca | aatagtgaga | 19320 |
| ctatacagat | aataatatta | ttaaaaatta | agtggattgt | ttttcaaata | attaacatgg | 19380 |
| tacaaaaaatt | atttaaatat | atgtatatatt | gaaataatca | caatttttca | caaaacacaa | 19440 |
| ctcattgcta | accagctcat | atgctaaaaa | agacaactca | tttctccact | cttttgacaa | 19500 |
| aaacagagca | ccaaacatta | aacccttcaa | aaacacaaat | ctcaccatca | cacgtaaaaa | 19560 |

| REN-00-118 seq listing ST25.txt | | | | | | |
|---------------------------------|-------------|-------------|-------------|-------------|-------------|-------|
| aagaaaatat | gtctatgctt | cttcttcttc | ttcttcttgt | cccattcatt | actccatctt | 19620 |
| cgcaatcttc | cattcgaaac | ctcctcgaag | ctcgcggttt | accaggtggt | ttgtttccag | 19680 |
| acaacgtgga | gagttatagt | ctagatgata | agacaggaga | gctcgaagtt | cagctacaaa | 19740 |
| atccttgttt | cgctcggttc | gaaaacagag | tatatattga | tcgtgtgatt | aaagcaaatt | 19800 |
| taagctatgg | tgggcttggt | ggacttgaag | gtttaacaca | agaagagctt | tttctttggt | 19860 |
| tacctgttaa | aggcattgca | gtgaatgata | cttcttctgg | acttgttctc | ttcgaatcgc | 19920 |
| gtgttgctca | taaacaaatc | tctcgttctc | tctttgaaga | tcctcctggt | tggtatcctc | 19980 |
| ctggtgagtc | aaagtttggt | cctcaaaacg | ttttagtgtt | taatgccaag | tgttttattt | 20040 |
| attggttaaca | tatatatgat | cttgaacaga | atatttttgt | agtaataatt | gtatgttttt | 20100 |
| atttgtagga | tctataatgg | agaagttaga | aaaaagcaag | atggatattc | agctcaagag | 20160 |
| atgaatgagt | tttttttttt | ttgggggtgt | gtaagattca | aaactcaaac | ttgtctcttt | 20220 |
| gaaacttgaa | caaaaaatgt | gtttttttct | ttcttctttt | acctttttgt | tcgggggtgt | 20280 |
| ttgggaaacc | gtggaaagtg | tcgggagata | tgtgtaaaat | ctggaaagaa | gggaggaaaa | 20340 |
| ttttggaact | ttgtataaat | tatgggggtcc | ataaagtaat | caattttgtc | acttgtcaat | 20400 |
| tatttttctt | ttctttatat | agagggaata | tagagtactt | tagatatattg | tttaactttt | 20460 |
| gctttaattt | ttgaggaatg | atgttttctg | ttaatcatta | tcctctagca | taatcattga | 20520 |
| catagaatta | ttctttgaat | ggaagctcaa | agctgcattt | gttaccaaac | aggcaatcac | 20580 |
| agctgttaac | ctaaacacaa | ctgacggatt | ataaaaattct | agcactgaaa | tacctattta | 20640 |
| aaactttcac | tcattttttac | acaagaagtt | taaaaaaaaa | aaaaatcagg | tagatatattc | 20700 |
| gggtaaaata | aatactccca | tttgtaccaa | aataaatgat | gtttaacttt | tttacacaaa | 20760 |
| gatcagaagt | tatttatattt | ttttccgaaa | taaaaacgta | atttatattat | ttatacatat | 20820 |
| tcaataaatg | ataaaataaa | atataaatag | tcataaggaa | aaaatataaa | aattttgcat | 20880 |
| agaaaaaaaa | gaacacgggt | caatttcaaa | ccaccaatta | ttctgatata | acagatgtca | 20940 |
| atacgcgtca | gagtgtgata | tatgttagtt | atatgcgatt | ttagtaacat | ttttggaatt | 21000 |
| ttcagtgttg | aatatcacat | gtatatcggt | gatcaaatta | ttttagttaa | catgttttca | 21060 |
| ccagttttat | ttgaatttat | agtcatttca | ccaattgatt | ctagaatata | tttaaaattc | 21120 |
| ttaaatgata | taaaggtagt | tgaaattaga | taacctaaca | ttttttatgt | taaccaaact | 21180 |
| ttttaattaa | aaataatata | tttataggca | caacctattg | taaatttttt | aattttacata | 21240 |
| gttttaagta | aacgagataa | aagaatcagt | tggtgatctt | caaatcggat | aaagtgttat | 21300 |
| gagtgtatag | gagattttga | tacaaattga | attctttttg | gagtcataata | ttttgtctat | 21360 |
| gctcaccaca | gcacggaag | atcttccatc | acaaaacagt | tcacatttgt | ggtggacacg | 21420 |
| agagatgaag | aatctgtctc | aaggtttaat | cactgtggta | ttatatagta | aaaattttat | 21480 |
| gatgatatta | aatcatgatt | ttggctatgt | taaaatttga | ggtttttggt | tctaaggatt | 21540 |
| ttttttgcta | gattttatgt | aatatctaaa | gtttaagaaa | tttgataata | attatagtta | 21600 |

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| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-------|
| cgtgacataa | ttcaaattta | tgatgaacta | catttactat | atatagccct | cgagataata | 21660 |
| atgttataca | tttatttagt | agatatatta | ttagataatt | caaaacttaa | attacattat | 21720 |
| tttgtttata | tatttcatat | tatgttaaag | tttaattgat | aatgatatt | tttacgaaaa | 21780 |
| atttgataa | tactaaagat | aaatttttaa | aacatcaatt | tcgttttatt | tttattaata | 21840 |
| gtacataaag | aaaaataaat | aaattaaatt | aatttgtgac | tattttggta | tatgatcaat | 21900 |
| gctcgtcttt | ttaagtagta | atcgtgtctg | ttacaggtga | atgaacccaa | caaaaatcct | 21960 |
| cgacgagcat | cttctgcttt | cttcatctct | gaatgatcaa | tttctagaat | cagatcggat | 22020 |
| atttcgatga | agaatcggtc | tttagggttt | tgggcgatcg | gggttttgct | catcggaagc | 22080 |
| ttgatcggag | ctacggaagg | ctcgattcat | gagtacaaca | acgaaaagtt | cactgcaaaa | 22140 |
| ttcaatgctc | gcttcttcca | tggtggtagc | gaaggctctt | acgcttccaa | atctcaagat | 22200 |
| ctaaactctt | cttcttcttc | tgataattct | tttaaaggca | agtcctttat | aaggctcagtt | 22260 |
| tcactctttc | tgaatcagct | tcataattca | aagtttgtgc | atttggaatc | gtactgattc | 22320 |
| aaagtttggt | ccttttaggt | ttgatgatgt | aacatttgtg | aggacaaagg | aatctgctag | 22380 |
| taaacagaat | gcaatgcagt | caacttcagg | attagtggaa | gcaattatac | ttgaggtaaa | 22440 |
| agaccgtgat | agaatcggtg | gtacttttct | caaatccgaa | gtgatttggt | gcacgccgga | 22500 |
| gctagctgat | actggatctt | gtagtcttgg | ggaagttatc | attaagagag | agtctaata | 22560 |
| tgttgagtgg | ccaagacaga | tcaagacatt | ctttaaaggg | aataagactg | aagttaacat | 22620 |
| gtcccctgaa | actgtgggta | tcaataagac | tgggatgtat | tatctttatt | tcatgatatg | 22680 |
| tgacccgga | ttggatggta | ctaggatcaa | ggggagaaca | gtttggaaga | accctgatgg | 22740 |
| ttattttacct | ggaaagggtg | ctcctttaat | gaacgttttt | ggctttatgt | cgttagcgta | 22800 |
| tattttgctt | ggtctagttt | ggtttgtgag | gtttgttcag | ttttggaagg | atataattca | 22860 |
| gttgcattat | catatcactt | tggttattgc | tcttggtatg | tgtgaaatgg | ctgttcgata | 22920 |
| ctttgagtat | gttaatttta | actccactgg | gatgaggcca | atggatgtta | ccctatgggc | 22980 |
| ggtgaccttt | tcttctataa | agaagacgct | ttctaggctt | cttcttctgg | tagtctctat | 23040 |
| gggttatggt | gttgtaaagc | ctacccttgg | tggtataacc | tcgaggatac | ttctacttgg | 23100 |
| agtcatatat | tttgttgcaa | cagaggctct | tgagttgggt | gagcatttgg | gaaacatcaa | 23160 |
| tgacttttcg | ggaaagacga | tgatagtttt | ggttattccc | gtggcattac | tggatgcttg | 23220 |
| ctttattctg | tggattttct | catcattggc | aagaacactt | gagaaacttc | aggtaagata | 23280 |
| ccacacttat | atcgaatatt | ggatactcat | gatccgtcac | attattatat | cagaaggatg | 23340 |
| tatatatacc | ataggctttc | atgggtttta | accatgttat | cgtacttaga | ttccaattta | 23400 |
| tgcagcctat | tcgagggaaa | atcatataca | attgctgctt | aagccatcta | tgacgatcca | 23460 |
| gttcttcgta | ctcttttttt | cagctgctta | tctgtctaaa | tttactaca | gattaagaga | 23520 |
| aacatggcca | agcttgagct | ttataggaac | ttcaccaatg | cactcgctat | ctctgttctg | 23580 |
| ctctctatcg | cttggaattg | ttttgaggtg | acaaatcgct | actctagtga | ctgtgtctcg | 23640 |

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| | | | | | | |
|------------|--------------|-------------|-------------|------------|-------------|-------|
| tgtataacat | gaaaccacct | gtcagaggag | tgtaactgaa | atcaaattct | tctatgtgtc | 23700 |
| tgtatcagct | atacttcaac | ggaactgacc | ctctaatacga | actctggcga | atggcggtgga | 23760 |
| tcattccagc | tttttggaat | ttactctctt | atgggtctgtt | agcagtcata | tgcacccctt | 23820 |
| gggctccatc | aaataatcct | acaagggttct | aatacttcca | ttagcgttta | ctcaaagtgt | 23880 |
| ttggactccg | atggtcccaa | tgggtcaact | gccaaagatg | tcaagattca | agacacttat | 23940 |
| ttgctcttca | ccgagagatt | atcattttgc | actcagctta | cctctaattg | gtttaaacct | 24000 |
| ttcaggtact | catacttagc | ggaaacaggg | gatgagtttg | aagaggaagg | tatctcattg | 24060 |
| acaggtagt | gaattaagag | tacagaagat | gttgaaagga | atgaacttct | atttgggctt | 24120 |
| ccagacgacg | ttgaagaggg | caaacgtgag | taagctccag | atagcaagcg | ttagatagtc | 24180 |
| catacctcgc | cgagtagttt | ttagtgtatg | taaccttatg | tcttttatcc | gttgtagctg | 24240 |
| agtaagttgt | ttactgacct | ttaaggactt | gtttaccaga | tcgaagttct | tttagtctta | 24300 |
| tagaaagatt | tacagactgc | ttatttccag | agcgtcaaag | ggaacttttt | tacattagag | 24360 |
| acttgagata | ttcgtcggga | agtcgttgat | catcatcata | gctgtacatt | aaaggaactg | 24420 |
| ttcttgcaat | gttgagacaa | gcttttgaga | atgatcttga | gaatggacat | ggattcagac | 24480 |
| actccctggt | caagcgtttc | catgctctag | atatcttctg | ggcaacatgt | gttcttgctt | 24540 |
| catcaacagt | tgatcccttg | tactcgttca | ggtaacactc | tacatatgat | ccatcagttc | 24600 |
| catcttggtt | ctcatcctgt | taaacaacaa | aaaccatatc | taagattcga | tatcaagttt | 24660 |
| cagattctct | ctagtcacat | tagttatcag | tagttcaata | taaccttggc | acttccgaga | 24720 |
| tcatcccaga | gcctgagaat | tgtagctgca | gatgatacaa | tccccgggtt | actctctatt | 24780 |
| agttcgactt | tctcttttgt | tagttcttcg | cctaacaaga | tataggcatg | aagcatcact | 24840 |
| aatgaacac | ctgaactcac | aacccatttc | ttcatatact | cttcagtggg | gggtaagtaa | 24900 |
| cccgaattaa | accactttgc | ttctaccaag | aatgctttac | acaaacttgc | ccactgagaa | 24960 |
| acaaagacat | catattttta | gtagggtttg | aaccagttga | gctatatgat | acaaaatata | 25020 |
| tatacacatt | acgttttgaa | tgataattac | cgattgtcga | agagcgtagt | tcgggttcca | 25080 |
| accatgtgat | ttgtagatct | tcatgcta | ctccgttggt | atcatatcta | gagcttcaaa | 25140 |
| acaaaccctc | atgtatttgg | gtagcgtctt | aagcccctta | tgatcccatc | tagacgaatg | 25200 |
| atttcattat | gtttgacaga | atgttaatca | agaaaatgta | taaagtaatt | tgtatgtacc | 25260 |
| tctcaacaac | tcgtgtgaag | atgggttagt | cttctagctc | cccatagaca | tcgaaaatgt | 25320 |
| catctataac | ataaacaagc | gatattgggt | tggtgaagatc | aagcctttgt | tcgggttaagg | 25380 |
| tcggatcttg | aagaattttc | atggaccacg | tatgccattt | taacggctgg | cttcttgcc | 25440 |
| tctccacatc | tttttctaaa | ccaagtcttg | tccaccatct | gaaacatcaa | aaaccataca | 25500 |
| aaaacaaaat | cgtatatcgg | aattcaatta | ttttcgacaa | aaagttaaca | ttgatcttca | 25560 |
| gggagtatca | tcattgattt | tacttaaagt | tttgagacat | ttctccttga | gtcaatgact | 25620 |
| ttagccta | atggaatcgatc | tccgccactc | gtaatagaga | ctgtaaccat | tctggatctt | 25680 |

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| | | | | | | |
|------------|-------------|------------|------------|-------------|-------------|-------|
| cttgacccgc | gattttgatc | atgcttgtga | acctcttgga | cgtaaaccct | cttacggttt | 25740 |
| tgtggcgagg | ttgcgccaaa | gacttcatta | tctcttgctt | ttgatgactt | tctctacctg | 25800 |
| agcaaagttc | attaaggcgg | ctatatgtga | attctctcgc | accgtcgagt | gtttcttcac | 25860 |
| cttctacacg | gagctcagaa | gcttcaaaca | attctgttag | acccttgacg | tcatttttta | 25920 |
| ctacgtcttt | aatccaccc | ttcttgtcta | ggatgttttt | gaaaataact | aatgttttta | 25980 |
| taaaaattgt | aacagtaaat | acgcataatc | catacgagca | atatagtaag | taaatatata | 26040 |
| tatataacat | cacatacttt | cttgaacata | gtgaccctct | tgtctcagca | atcgaaagcg | 26100 |
| aagcgctatc | tcattggagat | caccgttgaa | ttggaggcct | tctttgtaaa | tcattgtgaag | 26160 |
| ggtttgctcg | atctcttgtc | gaaaatggag | atcaatgcct | aaactttgaa | tgacatcgat | 26220 |
| catctccagg | ttctcggatg | gaacatctac | gtttgcactt | agtatatctt | tgatcttctt | 26280 |
| gatattcaac | tcgtgtaaat | attcctacgt | acaagaacaa | acacattctt | agttctgaaa | 26340 |
| acagcatgag | caacaaaaag | taagcagaat | atatatacta | aggatgtctt | attatgaaac | 26400 |
| tgcttcgaag | ggttagaaac | tgaagcatgg | acgtttctca | agatcgatct | tttagcagta | 26460 |
| tttgaggcg | acaaagaatc | gaccgtattg | ggaaatttgg | atatacagaa | cgttggagaa | 26520 |
| ttgtttggat | aagcagaaac | aaaacaagaa | cgtgaactta | ttttggtagc | tattaaggcc | 26580 |
| atgatgtatg | aacttaagtt | ttgttttggt | tttgtatgaa | cttaagcttt | taatgagaat | 26640 |
| gggtgttaac | ttcaaacgaa | atgctctata | catatagcga | ttatggatta | taaaggagtg | 26700 |
| gtggatgtag | catttagggg | acggggccat | gcataataaa | attcgttatc | aactatgttt | 26760 |
| tgtatatata | tatatatttt | gtatcatgtg | catactagtg | aaaagcatta | aacttcaagc | 26820 |
| ctcaaccata | tataaatgaa | ttataaagag | tctttgtact | aagcttttat | ttgaattact | 26880 |
| ggagtcgtaa | ttttaagatc | ttatagaact | gatacattcc | aataagtttg | gctagctaac | 26940 |
| attaagatta | attgggtaaa | tattaaatgc | attatgtatc | atgtttggtg | gcttcactat | 27000 |
| atctttcaac | ttaatataga | aacggtttgt | atttattggt | agacaagttc | ggaagacatc | 27060 |
| aattgtggaa | gcaaaccgga | agaacgtgaa | gaaccaaagc | atcaacggaa | caaaccaata | 27120 |
| atgatgactg | acactgatat | tttttttcca | tttttctttc | agtttaaaaa | gtttcattag | 27180 |
| aaaattggta | ttacaaaaac | aagtacaaa | tgactacaaa | aacttcagat | tttttctttt | 27240 |
| aattatataa | gccaagttat | gtgccatata | ctaaagaaaa | caaatacgaa | aaaatgaatt | 27300 |
| taatgatgct | tccttgcgat | aagctatttt | ctattatcat | gttaattttt | gaaacaattt | 27360 |
| tttttatata | atgatttgct | aaagtttttc | attagttatt | tacatatatta | attgttcaaa | 27420 |
| aattaaagat | ggaaaaataa | ctcaattttc | ctaagcaata | tattaatggt | agtattcatt | 27480 |
| ttagataatt | attctagtat | aagatttaat | taaaccatta | gataattttg | atgtatttta | 27540 |
| tattattaac | attcataatt | atttgacgtt | atctttgaat | taaatttctt | aactattttg | 27600 |
| acagatttga | ccaaaaatca | caaaaaagaa | agttcagttt | gattccggcg | gtttggaaat | 27660 |
| gtaaaagtcc | agctagatcc | atctgaaaa | cactaaaatt | cagttagtca | gcaattcagc | 27720 |

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| | | | | | | |
|------------|------------|-------------|-------------|-------------|-------------|-------|
| ctgactcagc | cagatTTTTc | ggttactatt | tagaccagtg | ttttcacgcc | cgacccgaac | 27780 |
| cgtccggtcc | gaccggTTaa | cccgtgaccc | gaacacgttt | ccggtttggg | tttagtgcta | 27840 |
| aaaccaaca | agttcaaaac | cgaaaaaacc | cacaaaaact | cgcaattaac | ccgtgacccg | 27900 |
| gtgaaccggt | tgaaccggcc | gagtgtgggt | tttaaaaagt | tctcttgatt | ttacaataaa | 27960 |
| atatgggatt | ttagactTTa | ttcaattatt | tttaaaaatt | tttttcagtt | cttaaattca | 28020 |
| tttgatgttt | tagatTTTTg | tgaagacttt | acaataccgc | cttaaaattg | aatcgaatgg | 28080 |
| tgagagagac | aatcgagatt | agttgtttga | attcacgatg | ttttattaat | ttattttctgt | 28140 |
| cattgatgat | ctcctaatat | atttggttacg | gtgttagaca | tttagttgga | tttcaaattt | 28200 |
| ttaaccactt | tattattatt | gtttgattat | atatatatat | atatatttg | gtgtaaatga | 28260 |
| ttttatattt | tgTTaaacat | aatataattt | tatatttgat | taaatatgat | atgattattt | 28320 |
| ttgttttata | tttataatac | taaattTTTT | tttatataaa | atactctaaa | atttctatta | 28380 |
| atattaaatt | tattaaataa | attttaacta | attaaccgt | ggTccaacc | ggttgacccg | 28440 |
| atgacccggt | gacccaaaag | gtagtccggt | tcacgtccg | ggTcgggttt | cattgtgtaa | 28500 |
| atgatatttt | ttgtggTcaa | agttgagagg | tactataacc | tttccattta | tttttttata | 28560 |
| gatttataat | caaaagaata | taacttatac | tttcaattta | tttccttata | taattagtca | 28620 |
| aaagaaacta | gaaaataatg | tttttaattt | cttaccta | tacgtttgaa | caatggtaaa | 28680 |
| gtgctagtat | tatatatttt | tttttttggc | aaatatatat | tatgttatgt | acactgtttt | 28740 |
| ctctacattt | caattTTTTt | tcacattacg | aaaatgggtg | tagcatatat | ttaagatttt | 28800 |
| gtattacaat | tccaaatttt | agtggTcca | acttgatgtt | atgggttaaag | aatgttggtg | 28860 |
| gtgggaggaa | agtttacaca | ttccaaacca | aatttttacac | attctttttac | caaaaaaaaa | 28920 |
| aacatttgca | aattcaaagc | attatgtttg | cagtttttgc | tggggaagaa | caagctaccg | 28980 |
| gccgtactgt | gaaactTTTT | atattagaaa | catcaaaaca | agaaagtga | catatcgtgg | 29040 |
| gacctatgat | catgggcatg | atgtatcaag | gctaaacttc | aaaagaaatg | ctctttttata | 29100 |
| actattacag | tcgttaatgg | ggatggggga | taacaaacat | catcattttc | ttttataacc | 29160 |
| actacagtcg | ttaattaaat | aatttaacca | atacaaatta | attgtaaaac | ttcggttaca | 29220 |
| ggaatatggt | ggtgcatgtg | gagaaattta | taaaaattaa | tttggtcatc | tatgttacta | 29280 |
| aaacacactt | atctTTTTtg | tcaaacgtct | taaagaaaat | tctacaatta | agcattttta | 29340 |
| agctgggaaa | gtcttatgat | agataacttt | cgaggaaatg | attgtcggaa | ccgtgtgagt | 29400 |
| gagaacaaaa | tacgggagaa | aatcatgtgg | tgatttgtaa | ggtaagtacc | aagtttttta | 29460 |
| agcctctcag | acatggcgta | tcgatcgttg | gacagaaata | gaccacaga | cccagaaaaa | 29520 |
| tacatgagac | ctactagtag | agactcttgg | aacattatat | tgataataaa | taaatggtta | 29580 |
| gattggaaac | tcaaaacggt | acaaggTTTT | taataaaata | gacgaccagt | aagcaataaa | 29640 |
| tacaaaatag | attaaagtcg | tagaaaatag | ctatatatat | ataagtatac | aaaaaattta | 29700 |
| tgagtatcac | ttaaaattgt | ttttaggttg | atattagacc | atctaattatt | cataacgtat | 29760 |

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| | | | | | | |
|-------------|-------------|------------|------------|-------------|-------------|-------|
| aaaaaaaaa | taataataaa | aaataataaa | gaaaaaacia | ataaatattc | attcctccgt | 29820 |
| gtttcaattt | tcttttagat | tttgttctaa | tgcaagcaa | aatatatcac | taaatttttt | 29880 |
| aactgaaact | tccattgata | tgtaaaagt | tatgttcttt | atatcttata | tatatatata | 29940 |
| tatatatata | tatatatata | tatatatata | tatatatata | tatatttggt | aggaatcttt | 30000 |
| tatatatatt | gagaacatat | aaaaactgtt | gatgttattt | cttaggcaga | aaaaattaca | 30060 |
| tttggttgga | ttatttcaca | ttgaacgcat | tcttatcatt | atcataagtc | ataacaacia | 30120 |
| catcgctctc | taccaataca | tttgccataa | gaatactcgg | cttcattaca | aaacacaaga | 30180 |
| caacctagtt | gccctgcgga | ataacacgcc | attagcatga | agcaaaacca | gtgttttcac | 30240 |
| gcccgaacca | aaccgtccgg | tccgaccggt | taacccgtga | cccgaacaca | ttccggtttg | 30300 |
| ggtttagtgc | taaaacccaa | caagtacaaa | accgaaaaaa | cccacaaaaa | ctcgcaatta | 30360 |
| acccgtgacc | cggttgaacc | ggccgagtgt | gggttttaaa | aagttctctt | gattttacaa | 30420 |
| taaaatatgg | gatttttagac | tttattcaat | tatttttaaa | agttttttca | gttcttaaat | 30480 |
| tcatttgatg | tttttagattt | tggtgaaaac | tttacaatac | cgccttaaaa | ttgaatcgaa | 30540 |
| tggtgagaga | gacaatcgag | attagttggt | tgaattcacg | atgttttatt | aattttattc | 30600 |
| tgtcattgat | gatctcctaa | tatatttggt | acagtgttag | acatttagtt | ggatttcaaa | 30660 |
| tttttaacca | ctttattatt | attgtttgat | tttatatata | tatatatata | tatttggggtg | 30720 |
| taaatgattt | tatatattgt | taaacataat | ataattttat | atttgattaa | atatgatatg | 30780 |
| attatttttg | ttttatattt | ataaaactga | attttttttt | atataaaata | ttctaaaatt | 30840 |
| tctattaata | ttaaatttat | taaataaatt | ttaactaatt | aaccctgggt | ccaaccgggt | 30900 |
| tgaccgatg | accgggtgac | ccaaaaggta | gtccggttca | tcgtccgggt | cgggtttcaa | 30960 |
| aacattgatt | ataacatttt | gccatgtact | actaaaaata | aatcaaaatt | aaatttataa | 31020 |
| aaacaaatta | aggaaacaaa | atctgtatac | atttaattaa | acaaaattaa | tgtttataaa | 31080 |
| taagagtttg | ggtttagatt | tacaactaaa | tgaaactaga | tgcggtttgg | gttttttatg | 31140 |
| gttttagattt | tatagttaat | tcaatttaag | agtttgtaat | gaattaatga | attttattat | 31200 |
| tattagataa | taatgactgt | tttagtttgt | ttaataagat | gatatggcaa | attttgatgg | 31260 |
| gctacttaag | aggggggggg | ggaataagaa | aaataaatgg | gttgatttga | actagttata | 31320 |
| ttttgattgg | ctagttaaga | ggagggaaca | agaaaaacia | attttgattg | tttttttggt | 31380 |
| tgatttttag | tttaataaaa | aaaatgacta | gtaatttcat | gtgattaact | atcaaattct | 31440 |
| tacgagattt | tgtataataa | tgaaaacaaa | atataataag | aattagagag | attgttaaga | 31500 |
| ttacccttcc | aaggttacct | ttttaattct | accctttcat | ttagttcatt | tttatttata | 31560 |
| catttttaaa | ttattaatga | ccattttatc | tttatttgaa | aatgttttcg | gttaacataa | 31620 |
| tgaaatatgg | attttttccg | ccaaaaatat | tccgacgata | cttcttattt | aattgtatat | 31680 |
| aaaaagatag | gttgaacttc | ttgccttggt | aaaaacctac | agaagccatt | atcatgaatc | 31740 |
| ggaacaaagg | agtgcgtaaa | gaataccaca | tctctctatt | aaaatttttag | aagcaggcaa | 31800 |

| REN-00-118 seq listing ST25.txt | | | | | | |
|---------------------------------|------------|------------|-------------|------------|-------------|-------|
| ttttttaaac | aaatctaaaa | taaaataaaa | aaatgtgac | aatgggtttt | gagaaagaaa | 33900 |
| ctcccataat | tatagatttt | ggttttcttg | aaaaattggt | caaacactca | aaaactagat | 33960 |
| tccctatttt | ttaggaaaac | ttgtttttct | tttaatctta | aatgggtaca | aaatagattt | 34020 |
| tgtacaaaat | agatcttaaa | tgggtacaaa | atagattttg | ggaaaaacta | aaaccaaaaa | 34080 |
| ctaatttaaa | aaccacatcc | attcgagggc | tactttctta | aaacgaacat | gcttttagtag | 34140 |
| ttttcaaaaa | tatttaatta | atcaaattaa | ataaagaaga | tttgatatct | aatttaacat | 34200 |
| attaattttt | atttaatcat | tgtacttcac | cgctcatctt | cgtttaattc | tacttttctg | 34260 |
| aaaaaaciaa | tcatacatc | atcttttcgc | gtatgctatg | atttgaattt | ttttgtagga | 34320 |
| tgttgtttgt | acatcagatg | ccttggtctg | atggggagtg | atcaatgggc | tcctctccaa | 34380 |
| aatgtttctt | cacctttcat | gaatcataat | acatgatttt | gctctttcta | cgatcaaaac | 34440 |
| ttcctcttta | agctcattct | tcatgataca | tgctccaaac | cctaggaaga | acctaagtaa | 34500 |
| tgcaaaatac | acaactgagt | tgatataaac | cacaaagata | tcaacaggta | aaagagaaa | 34560 |
| ctctgattca | aatgtacata | tgagtcttct | gtgttgttcc | atcgacaaaa | tatgactaat | 34620 |
| gaaaaaactt | ccgactctcg | tcagtttaca | aatcagatga | taaacactcg | agtaacatga | 34680 |
| aggttatgtt | acaaatatcc | aatgaactgg | agagttgaat | caacttgaag | caagagcggt | 34740 |
| tagcttcttt | tcatatagtt | ttgcccgtcg | aagagcatct | aatgcctcag | cttgtttccc | 34800 |
| tgcacgtttg | aaggtcacag | cttttacctt | ctctgctttg | attcgttcct | ccaattgact | 34860 |
| tctctcttga | ttattagtat | ttctattact | ctccttcact | gggtttgggt | ttgccgcagc | 34920 |
| ttgtgttgtg | tctgttttac | ttaccggtgg | aggattcacg | ggattgtcta | atccaatagc | 34980 |
| tttgagggca | gacaggagtt | gaggatcgag | aaaatcttcc | accgctacat | cgtccaccgg | 35040 |
| ttctggttta | gaggatgttg | aatcttccaa | ttgagcttca | agagttttgg | cgatttcaaa | 35100 |
| ctcagcttca | gcttcctgca | ttttaccttc | cctccgaagc | ttcatggctt | gacgtttgtg | 35160 |
| acttagtgac | tcttgctgca | gcttaaaacg | gtcacgacct | gacattgcct | ttggagctga | 35220 |
| acttgaagga | ctattctctt | tctctcgagc | aggaggatcc | tccgttggtg | aaaccatatc | 35280 |
| atctcgtccg | agcttttcag | gagagggatt | ttctccttct | tgtagtctcc | tctccaacaa | 35340 |
| ttttgcttct | tgcaatgcct | ttttggcttc | acttatgttt | ccttctctct | ttaaggcaag | 35400 |
| tgcccttttc | ttatgagcca | gaatctcttg | tttaaggggtg | ttctgaggag | atgtattttg | 35460 |
| aatcgaagct | gattgaatat | gactgggctc | tgactcttca | cgtgccactc | tttgttcagc | 35520 |
| gccgtgattg | tttcctgaac | gaaagcctga | catagtctca | gcatttcctt | tttctgcatg | 35580 |
| aatttgagac | ctctcagaat | gctcaccagt | cagcaaattc | atcatacttg | gttgctgctg | 35640 |
| gccaggttga | gaaacaacgc | cagaggaacc | agatttagca | ggggagataa | agtctcctaa | 35700 |
| caagtcataa | ctatcttgag | gagcatgaga | aacactagca | gattttatcg | ctttatcctc | 35760 |
| catttgcgat | ccaactaata | aatcaacatc | catgtagttt | tcaggtttta | ttgcagaagc | 35820 |
| tgagcctttc | atctccatct | tgggggtttc | cagttctgct | agctgtgcct | ccaaaacact | 35880 |

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| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-------|
| ggccttactg | tataattcat | cagcatctcc | agttttccct | tgacgcttga | aggcaagtgc | 35940 |
| ctttcttttt | aagtcaagaa | gttctctttg | gatttgtccc | ttgcttttgg | ctgctatccg | 36000 |
| tggaccgctt | gactgcacag | agccgaaaga | agcttcttct | ttcttttggt | cttcatcctc | 36060 |
| ccatcccaaa | ttcttaagag | tcgacaataa | cgctgggtcc | ttcatatcat | tttctgtaac | 36120 |
| gctatcatct | cctccattga | gccgactgtc | ggtggcaaga | tcattggatc | gttttttcgg | 36180 |
| ctgatcactg | tcagcatata | gattcttgcc | tgaatcaatc | tccattatct | gagcttccaa | 36240 |
| tatttgtgtc | tggttcagaa | cttcctcagc | ttcatcaaca | ttaccctgtc | gtcgcaaagt | 36300 |
| taaagccttt | cttttcagcc | ctaagagttc | tcgttgtatt | tctgctttag | ttctccttgg | 36360 |
| tttagtaaca | cgtacttcat | atgcaccttg | agcttctgct | gttttccctg | gtcgagaatt | 36420 |
| tagtgggtca | gatttttctg | atgaaggacc | tgaggatta | ttatcttcat | cattccaacc | 36480 |
| taagctcttt | agcatcgaca | agtaattcgg | atcatttaac | tcctcatctt | ttacatccac | 36540 |
| ctctccatca | tcatccagag | aactaatatc | aggcagatca | tttccttttt | cacgagtggc | 36600 |
| cttcctgtg | gcagctaact | ttgacgaatt | gtccagctca | tcaagctgat | tttgagaaac | 36660 |
| cgctcctttc | ttcaattctt | cttctgcttc | gttaaacttt | ccttccttcc | tcaaagtaag | 36720 |
| tgctttcttt | ttcactgcaa | gaagttcttt | ctgaatcgct | agcctgcttc | tgggaggagg | 36780 |
| tttaagactc | gtatccctct | ctgccctagt | tgtgtcaaca | gtttcagagg | aagtatcagc | 36840 |
| agcctctagt | tccttctcaa | gtaattttgc | cttctttagt | gtagccatgg | cctcaacgac | 36900 |
| atttcagcc | cgtttttagat | taagggcctc | tcttttcaat | gtctgaattt | cagctaaact | 36960 |
| ttcatctctg | tttttaggag | atggtcgaga | gtggacattc | tcatggtgtc | caggatcctc | 37020 |
| actccaaccc | aaagatttca | atgcagcagc | gattgctggg | tcctccatat | cttcatctgt | 37080 |
| gacatcatat | tcaccatgaa | ctccaatatc | atctaaattt | cccacaagg | tactaatgtc | 37140 |
| gaaatcatgg | cttcctcgt | attgagctaa | cagatcatct | tctttgtcat | catccatact | 37200 |
| attaataagt | gcagatagct | catcatctga | tccatcagct | ccacccaaaa | gttcctgctc | 37260 |
| ttccagttcc | ctttccaaaa | ttttagcctt | tttcagttca | tcttttagctt | ccgcaagctt | 37320 |
| cccttcacgt | ttcagcgtaa | gggcttttct | cttaagggca | attacctgac | tcttgtcaat | 37380 |
| acccccagtc | ttctgaggat | tagcacttcg | cggaaattca | cggagaagag | acgaaaattc | 37440 |
| gccctccaaa | cttatagttg | ctggtttctt | atcttcatcg | tcagaccacc | caagctccct | 37500 |
| caggtcagct | gccaaatcat | catttccttt | acccccttga | cgtagaggct | tttgtgattt | 37560 |
| gctagattct | ttggtagcag | ccttgttctg | cgtctcagca | acatttcgca | tagacagttc | 37620 |
| ccttttccgg | ttccttctta | aagatatctc | taatgcgtcg | gcctctctct | caagttccct | 37680 |
| ccctctctta | aatgctttta | gagcttcatc | agatttcctt | tctcctttta | gaattctgta | 37740 |
| cttattcttc | gcttctactg | cttgtttacg | caattcttca | ggactagcat | ccaactccat | 37800 |
| acctttatta | ctactgctac | ttgccatttc | tttagaagca | ttcctgtctg | tgctagacac | 37860 |
| agattcagat | gaagaagata | catcaacatc | agagcctaga | atctcactga | gaacatcatc | 37920 |

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| | | | | | | |
|-------------|-------------|-------------|-------------|------------|------------|-------|
| ctcattcttt | acagtccttt | tcgagctacc | tcctgaacaa | attcacaatc | tctttacatc | 37980 |
| aaaaactagc | agataacaca | aaagtgtcat | aaataagatc | actataggta | cataaatacc | 38040 |
| tttagcagct | ctatTTTTgt | aaccatgacg | caactcaaac | cgtgcagctt | cttcaatttt | 38100 |
| cttacatggt | tcacatatac | gcacagggtga | gtcaccttgt | ccacgtagt | acaacctttg | 38160 |
| ctgagtgcag | gttccacaga | acaatcccc | acatctccgg | caatgatgct | gctcgctcaa | 38220 |
| aaaaacaaag | ccaacagaaa | ctaagaaaaa | ttaagcaaat | tcaaagggtt | ttgggagaca | 38280 |
| tagaagaatc | cagcaagtca | caagtctagt | aatacacaaa | ccacaaaaca | tccagattca | 38340 |
| ccaaattttac | tcaaaaatat | ggaatctatc | aaataggcac | atcaccagaa | accgatcatt | 38400 |
| cagtgaagtt | ttccgataaa | cagattctga | attagatctc | gaagaagaat | cgactaagac | 38460 |
| gaaactaaat | ttcgatcgaa | gaaactaaga | atctaaagat | cgcgatagca | ataagcaagt | 38520 |
| accaattgat | agagagagta | aggaaattaa | gagagaggaa | gaccttgcca | ttgatgaaag | 38580 |
| tgaattgaga | agaacatcct | tgacaatgag | aagcatcaac | gacccaacta | tttctcttta | 38640 |
| gagatggctt | cggcggtaat | ccgatcttct | ccaacatttt | cccgtctgat | tcttcttctc | 38700 |
| ctccgccgcg | aaacgaactt | ggttttgatt | ttgatcttac | cggaaatgta | aaagatcgag | 38760 |
| cagatgaaga | agaagaagaa | gaagaatact | tttctcctc | tattgtcaga | tataaaataa | 38820 |
| ataattttta | ctaatacggg | atcgtttttag | ctaaaacaca | taataggact | caatatataa | 38880 |
| agcaataata | attagacatg | aaactaattt | ttgctttgag | acgagaacga | agttagaaag | 38940 |
| agacaagccc | taaagatcgc | tttgagacga | taaactctta | aagtttcgat | tcgttcacga | 39000 |
| tgatcgtccc | tgttcgttgt | tttacttggt | gaaagggttg | tttttcttc | tctctttttg | 39060 |
| tacgattttcg | atttgttata | tatatatgtg | tgtgacaaat | ctctagggtt | tgtagtattg | 39120 |
| agatttatga | agcttttggt | tatgattttt | tgtagggtgat | tgggaacaaa | tgggacacat | 39180 |
| accttgaact | tctccaggct | gattacgctg | aagggtgaagc | gatatatagt | ttatgattag | 39240 |
| aaaaagaatc | ataattttgtg | agaaattttt | ttggtgaaca | tgagagtgat | tgaatcttgg | 39300 |
| aattttgaac | gttttctgac | attttcttag | ttgaaatgag | agtcatgtaa | aagatgaaac | 39360 |
| aatagtggaa | catgacaata | gaatgatttg | atggttttgt | gtagtcaaag | agattgcatg | 39420 |
| atcttgtctt | gtatgatcat | cttgaaagtt | tatacatggt | ttagccttgt | tactaaaagc | 39480 |
| atgaagttag | atcattggga | tttttcgatt | ttcttgtttt | aatcgctagt | gtaatcttta | 39540 |
| gcccgtttg | ttctagggtg | taagctacat | gatttggaat | tgcgcaattt | cgtttttggt | 39600 |
| ttagttgcaa | tttgatcatc | ttgaagttca | tagatgttat | cttaagtgtt | agtaaagagc | 39660 |
| atgatggtag | gtgatcactg | atatattcca | ttctcttggt | tctatcta | cttttagcta | 39720 |
| ctttggtttt | aggcattatg | ctaaaattgc | attttgttga | actgaaaatc | tgaattttgg | 39780 |
| ttttggaata | cgcagggatg | ctcttgacgc | gcttgatta | gtccgttact | gctgcaggcg | 39840 |
| tatgcttatg | actcatgtcg | atctaatacga | aaagcttcta | aactacaaca | gtaatatctc | 39900 |
| catacccggt | tcttttgcct | tgtgttgcct | ctgctctatt | ctttttgtta | acttgcttat | 39960 |

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| | | | | | | |
|------------|------------|-------------|-------------|-------------|-------------|-------|
| tcgaatactt | ctcttttgca | gctatggaga | aatccgaccc | caattaaaaa | aagatgctat | 40020 |
| aatgaataac | aaatcatcaa | gagctgaagt | gaaggagtga | tgcattctcat | ccatgtgggc | 40080 |
| gtcttaataa | aaccacaatg | tttcagaaat | tttggtttaa | tttataacta | ggaatgttga | 40140 |
| tatttcaatg | ttttctgatg | ttcttggttcg | gttttagaaa | tctagacaat | ttttcgagcc | 40200 |
| aaaaataaag | ctcaagcctg | tagagtcatc | atctattgat | ttgttttttg | taatctaadc | 40260 |
| ctgataaata | gtaaagatca | cacatttgat | aagggttcaa | tctacaatct | agatcacgag | 40320 |
| taggaagcag | ctctttttgt | acgatatcaa | attggtaatg | agaacagagc | acataaaaac | 40380 |
| aatttgaatg | gagctcccat | tttataaccg | gagaatatca | aagtttttta | gttacaagtg | 40440 |
| gttgatttaa | ttcaaggaaa | ccatttaaca | aaagaaatat | aaatatttat | attaaatata | 40500 |
| cactataatt | agttgaatat | atattttatt | tggatcaaat | gtttattaag | atatattttt | 40560 |
| attataaaaa | tttattctga | aatatgttta | ttgaacaata | tactgaactt | aacaaaccaa | 40620 |
| ggagactttt | tttattttat | tttttttcaa | acacaaacca | aggagacaaa | tatgaagaaa | 40680 |
| acaaattaca | tttgaataga | gaggtagagc | tatataactc | actgaatgct | tggaaatatt | 40740 |
| gtctattagt | ctattacaga | ttaagatttt | ctaaaagaat | ttgagcccgc | tgaaccacga | 40800 |
| atttgagagt | ttggcttaga | ctcaaattcg | agttttttacc | tagtacgcat | tcaatatgga | 40860 |
| aaatggtgca | gcactcaacg | caccaataga | acacttttgt | gtttgtgtct | cttaaattac | 40920 |
| gttcacatac | ttcgcaccaa | tctttttcac | ggacctcttc | ttcccatata | gctgtgagaa | 40980 |
| agtgtttgtc | atgttcatac | cttgctctat | agggtaatgt | agcacacttc | atacaaaaaa | 41040 |
| taaaatcaca | tttgatgcaa | tttaattgat | tatgacgttc | tgttttgcat | acgcgacata | 41100 |
| tgagttttcc | gtctcggcct | acaaatatga | acaatggatg | tttatgacct | tggaaacaaa | 41160 |
| acggctcagc | aattgaagca | cattttacat | ctagagtga | gatacatccc | cttatgcaac | 41220 |
| actcatagac | aaagccacga | caaccacgat | tacaagaact | gcatccaaaa | cgatccatac | 41280 |
| catatctact | tgcagctttt | aatgttagtg | gatgaggatg | taatgcatgt | tgtaatatcc | 41340 |
| tgcaaaattt | tgcacatggt | tcatggaaga | tgaaatcatc | acactccaca | caagaataga | 41400 |
| aattaccttc | gaaaataggt | aaataacacg | cttgacaaag | ttttttttcg | ttataaagta | 41460 |
| tactgacttc | gagccggaaa | tgatgggtcat | ggagaaaatg | aagtatcact | tccttagata | 41520 |
| ttatattgaa | tgatccaaca | tcttggttaa | tatcatcttt | gtctgggttaa | ccttcgagat | 41580 |
| cttttccatc | ccacacattt | ttctctagag | cacatctcga | atgaacagca | taatgaccac | 41640 |
| acttatcaca | agtatatgca | ccataatcac | cgtcaataat | ttgatgaaaa | actccacaag | 41700 |
| accattcaca | tgatcgtaga | gaaaaagtgt | aggagatacg | atggttgtga | cgtgatattct | 41760 |
| tgatgacgct | tggagagtac | atacaatcac | tatgaaacac | aaagttgcat | ctgacacata | 41820 |
| tgtaggtggg | atatagtttt | ctcaccaaac | cacaaaagtt | gcaagttaaa | gaagtttgtc | 41880 |
| taggaaaaaa | agtgagagga | tggtcggcat | gccttttttg | tgggtctata | acaaagggta | 41940 |
| ttggcttcac | tgcacatact | ggatgcatga | aaacgttaca | tatggtacaa | taatatacca | 42000 |

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| | | | | | | |
|------------|-------------|------------|------------|-------------|-------------|-------|
| ggaagtttac | tcttcttcta | cagcataaac | aattaatact | gtaaagaagg | aagtgaaggt | 42060 |
| aaagttggag | cgaatgctga | gggtgataag | ggtgtttgat | tttaagtgga | gactcgacgc | 42120 |
| attctttgtg | atactttttc | gtgcaaagt | cacaaaaata | atagtcagt | ccaaaatttg | 42180 |
| agtgacggca | tatattgcat | ccaccatcaa | tatcgaattc | tttattgttg | cacaaaaaca | 42240 |
| acgggagtac | tgaatgatata | gtagcacttc | ttgtagagaa | gacgaactcg | ggggaagaat | 42300 |
| tgagcgggaa | aatattccca | gttctatctt | taaattttcg | tgcacttggg | cataaaaaaa | 42360 |
| gaggttgaag | aagatgggtca | tcgctgactg | cttcaccgga | tggagatagg | ctatgtgttt | 42420 |
| ttggtttggg | atgatacttg | ggatgatgat | attccagaaa | taggttacca | tccttttcct | 42480 |
| cctcatgaaa | tccaccgaaa | tccatggctt | ctcctagtct | ttgtttacta | tacttctgtt | 42540 |
| aagatctttt | ttttttatat | aaatgcaaaa | tactagtttt | gagagttttc | cactatacat | 42600 |
| aagaaaatct | gataccaaaag | gtctccttct | acgtttaatt | attggatcct | taaccgtgaa | 42660 |
| aatgagttga | attatgttct | tttctttgta | ttgaatggta | attttctttc | cacgcaagta | 42720 |
| aagaatactc | ttttccacat | agttttcacc | cttacggaac | ttatatatcc | gactcgtcaa | 42780 |
| gattttaatt | ttacgatcaa | ttacaataga | gaacaaattg | agaccttaac | ttaaattggta | 42840 |
| actacttttt | tagtcagttt | ttggtttttg | ttatcaaaag | aaatcattag | tcattccaatc | 42900 |
| aagattcttt | tacaattgta | ctcttagctt | tcttctcttc | tcgaggaaag | aatgattcac | 42960 |
| aatggggaaa | tgtgaagtag | tctttcaggt | aatagaattt | acaaagcagc | ttcctagagt | 43020 |
| aatagaatta | tcattgtgtg | atgatcaaag | aatcttgttt | ttcacaagtt | cattttcaaaa | 43080 |
| gtatgtaata | tttatgtatc | aaaagacatt | aaatcaacca | acataataata | cataattatt | 43140 |
| caataccatt | ttatagaatg | agaatgagac | caaagactca | tatactcttt | gaatccattt | 43200 |
| tgacattata | aaagtcaagt | ttatttagct | ttgatcaatc | cttttgactc | gaagtactct | 43260 |
| atcatttgat | catacatctc | attgatccca | tattcgaatc | gaaagccttc | attgataagt | 43320 |
| ttttgcgaag | atagtgtcaa | tttcggaatc | gacaagccct | cttcgaatct | gccaaatttc | 43380 |
| acaaaacaaa | aattgattag | acaaaagaaa | atcgaaattt | caattaatat | ttttgcaatt | 43440 |
| tctgtagaac | ataaaggctt | actctgacaa | cacattgtac | ttaggatatc | tctgtatgag | 43500 |
| aaaatccgca | atctctggaa | cacttgtgtt | gtaagcacag | caaatgtagc | gaccagaagc | 43560 |
| agtttctttc | tccgcaagaa | acaaatgggc | acgagctaaa | tcgtctacgt | ggacgaacga | 43620 |
| gatcgagcca | gatagcttct | gcatttcctt | gagaccggtc | acatgcattt | ctttccctga | 43680 |
| caacaacacc | aaatcatctt | gattatttat | cgtgaaacag | aatgggataa | aatggtaaat | 43740 |
| tcgtgtttac | cgggtgatgaa | agacatcgag | agagataagc | tactcggagg | atcggagagg | 43800 |
| agagagtttc | cggctataag | tgccggaatc | acggtaacga | gattgatctt | attctctttt | 43860 |
| gcaaattccc | aagctgtctt | ttctgctaac | accttcgaga | ttgggtaacc | ctagaaaaga | 43920 |
| acagagaggt | aagttggttt | atgtatgaaa | aagccctagc | ttgtgtaaca | agaaacgtaa | 43980 |
| ttaccaggtt | aaaaggcttc | tcctctgtga | gaaattcaac | gtcagtccag | ttttcttcgt | 44040 |

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| | | | | | | |
|------------|------------|-------------|-------------|------------|-------------|-------|
| tcacacgat | tccggttcca | gaaagattgt | tgatggaaac | agcagcagct | gaagatgtgt | 44100 |
| agatcacacg | cttgactgat | ttcgatttta | agcaagattt | caacacattg | atcactcctt | 44160 |
| gtatcgccgg | cttgatcatg | tctttctgta | tattgaaaca | aaaacaagat | aagcttgata | 44220 |
| atgtttctct | tatgagtata | taaaagcctg | cacattctgt | tcaagataga | cctcgggatc | 44280 |
| ttcggattta | aagttgatcg | gagttgcgac | atggaagatg | tattcacagc | cggagaatga | 44340 |
| ggattcgaaa | ctgtcttcat | cagtcaaadc | tgcttgaag | atcttcaggt | cgccaagctc | 44400 |
| ttgaagtttc | ctaaggtgag | ctattttctt | ctcgttttct | gcagtttcag | aataaaaaaa | 44460 |
| atccattaaa | cattcaaaat | gccttcagag | aaaaaagaaa | gaagaagaga | gtgaagaacc | 44520 |
| tggatctcta | actgtagtgt | taactttgta | gccactttga | agcaaagctt | tgatgagaat | 44580 |
| agaggctaag | tttcccgtgc | caccaatgac | acaagccttc | ttcgatccgg | tgtgtgtaag | 44640 |
| agtctggtcc | atgattgtac | ttttgaaatt | acagagatag | agatttagtt | gttatgagtt | 44700 |
| tatcgtcttg | agacttctat | ataagaagta | aaaagatttg | caaatagtcc | ttgctcatta | 44760 |
| ggtacaacag | tagatcaata | aggctgtttt | agaaggtaag | cacgtgatct | ttgaaataac | 44820 |
| caacttgtct | tcacctaaga | atcaaaaaag | attgaccttc | agagttctga | tttgttatca | 44880 |
| tctaccaaat | tatcacaaga | gtttgattat | ttctgtctct | aaacaatata | acacagcttt | 44940 |
| agagtaacga | atagtgttac | agtaagggtc | tgttacttca | atTTTTTctt | tgccgatctt | 45000 |
| aaaatgagtt | gcaaaagaat | gctttttact | tccaccaatc | tgtcaaattc | tctgcagttt | 45060 |
| ttaacacaac | ttggacttgc | tatgttctgt | ttcacgaatt | acacgagtca | attcaacata | 45120 |
| acttgctctg | ttcttgtcca | tgtttcacag | aatctggcct | taagcaattt | tatcatattt | 45180 |
| aagctacaaa | tccataacag | agtttaacaa | agataaaaata | accagaaagt | tacattgaaa | 45240 |
| gataaaaagt | gaagaagaca | aaaaaaagag | agggtaaatc | ctaaatcgaa | aacaaaagaa | 45300 |
| ggcattggca | atagcattcc | gatttttaaaa | aaccgataaa | tctatgtatc | taatggcttg | 45360 |
| ttcttagaag | cttcaacgaa | catagaagca | acctcattca | aaaacttagt | cttctccaac | 45420 |
| acaaattcca | actccttagc | ttgcaacaac | ttatacttct | cttcaacaat | cttcttactc | 45480 |
| tcaaccgaaa | ccaaactcca | ttgctgcttc | acataatact | catcaacacc | caaactagca | 45540 |
| atcatcctaa | caagagacga | gttatcaaac | caatcacatc | catcatcacc | accatcttct | 45600 |
| tcaacttttt | taccattagt | tgaagaacca | ccggcaaaca | ccaactcttg | cttaacagaa | 45660 |
| tcaatcttct | tcttcgccac | actctttttc | gatacaccgt | tcgacttaac | attagaatca | 45720 |
| agagctattc | ctttaggtcc | ccaaataaac | ttagacaatt | caaaagcttt | cttatcatga | 45780 |
| gctttcacia | aactaggttc | gttccttcct | tctttaccaa | tatacttctt | ccttaaaactc | 45840 |
| ctaactttat | ccatgaattg | attcttacta | acctcaaagc | taatcgattt | cttcaagaaa | 45900 |
| tcgtaaaacg | cattagtatc | tacataagga | gacttccctg | tatcagcttt | gaaatcaatc | 45960 |
| attccttgta | acactaagat | ttcgtcttct | tactccata | gtctttgaaa | acctcctggt | 46020 |
| ttcttcacac | tctcttcac | tttcttcact | cgtttcgttg | aagtcgtagc | agcagcttca | 46080 |

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| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| ctcgctggcc | gttttgttcc | tgatttcatc | gccggtaaag | ctaaagtagc | tgacgacgac | 46140 |
| gttgatcct | ctttcttctt | tagattcact | gtgtttaaag | cgattgtctt | cccagatcca | 46200 |
| gaattcgggtg | gatttgttga | ttcagaatcc | gaatctgttt | cagtctcgga | tccagaatct | 46260 |
| gaatcagcgg | cgggtggagac | ggcggtggt | ttagctggag | gagcggcggc | ggttgtggcg | 46320 |
| gaaggggatt | tgattcgaat | tttgattggt | acgtcttctt | cagatgaaga | ggaatcgtct | 46380 |
| gaagcttcac | cagcttcgga | agtctcgacg | tcatcttcgt | cgcttgaagt | tgccgttggt | 46440 |
| ggatcttcca | gtggattgag | tttcttcgtc | attggaaatt | ttcaaggagg | caaatcgga | 46500 |
| tccttcaagc | agaagagaag | agagaagctt | tttagggttt | gtgaggagag | gacggcaaaa | 46560 |
| gtgtttggga | atataaaggt | gttaacttta | gtttaaagt | gttgctgtct | tccaatagat | 46620 |
| attttaggg | ttttaatata | gggaattaat | tatttttttc | tctttttctg | ttgggtcaaa | 46680 |
| taatttagta | tttttattac | ttttgctttg | gtaatatattt | atctctttct | tttgggtcaaa | 46740 |
| gtaatttagg | atttttatta | tttgctttgg | taaatatattt | ctctattttt | cttatgtata | 46800 |
| acaaaaaaa | aaaggcctaa | gccaaaggcta | tggtttttgc | tttttagcttt | ttccaaaaat | 46860 |
| ccatttttta | aaccattcaa | gattttgagg | aaagttgatt | ccctatataa | attaggggaat | 46920 |
| ctaattctaa | gagttttttac | taatttctta | acaagatcca | aaaatctcat | gttattttaca | 46980 |
| aaaacaaaa | tctgaaatct | aaaatctcct | aaaatcttgg | cctaaatttc | tcttttcagt | 47040 |
| atcaaactga | agtatgggct | ttcaggcttg | tacatgctta | acttctgttc | ttctgttaaa | 47100 |
| tgaggtgtaa | atccaattgt | gtagagccca | ttactaggcc | cagagaccat | tttgaccag | 47160 |
| atacaatcag | ctcacaaaat | agaaaacata | acatcatgtg | tcgttgaaga | aaatatggta | 47220 |
| caaggcatga | tgggccttgt | tgatgaaaat | atggttagat | tattattaaa | tgagcatgg | 47280 |
| gaaacattat | ataaaggaac | gaaagatgat | aagtctaccc | acattactta | ccaccattct | 47340 |
| taattatacg | tttctttttg | cttttgattt | tggttcctct | tgtattttcg | atctaagagt | 47400 |
| aatacttttag | aggaagtaca | tacagagaca | acctcttaaa | caaatccatc | ggaaccctaa | 47460 |
| acatctcctt | gtggcagagt | tatgactttt | tacttccagt | gatgaaattt | ggttgggatt | 47520 |
| atagccacga | actcaataga | attcttaaga | tcatgtgaaa | acgttgacaa | gatcgtctac | 47580 |
| gattttccaa | gattctaagt | cttctattga | tgttcatggc | tttaacctga | tttttttttt | 47640 |
| cctactaaat | cgacactcga | tggctacctt | agagggttaac | taaggcacct | aagacattca | 47700 |
| tggaacgaag | ttggctctag | cgggtgtgtct | tagagccaac | tctgttccat | gtagagatta | 47760 |
| ggtttcttag | tgatcatgag | tctctggctt | aaccaactac | tcaacaatca | agcaacatgg | 47820 |
| ttgttggttt | gatgtcagtt | gaaagccggt | tcaagctcaa | gggtgttaacg | tttttgctgt | 47880 |
| tgatcattct | tgtaatcttt | tctcggattt | tgagagagtt | ggggctttat | ttttaatgta | 47940 |
| accattaaag | atgagagtga | atttttaga | gaatcaagct | tagacgtatt | attcactatg | 48000 |
| tgagctcgaa | ctacttaaga | tcgtcttttt | cctctgtttt | gctctgtttc | tgtttctgat | 48060 |
| tccgtgtatt | attgagtgca | tgtgacaaca | agtaaagatt | tgatcgatta | tttctgcgt | 48120 |

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| | | | | | | |
|------------|-------------|-------------|-------------|-------------|------------|-------|
| aaagtgacaa | tagcaatttc | aagaataatg | ttataagttt | aatgatgaca | tggcattatg | 48180 |
| gactaataac | caaattggatg | aaggaacaac | caaaagaata | tgatgatatg | gttatacaca | 48240 |
| tctattttga | actattttagc | aaagaaacca | aaacttttatt | tctgtggtaa | tttgaaagtc | 48300 |
| atgtaactac | agagacaaat | cattccaaac | atatatccat | agctagtcac | caacactggt | 48360 |
| caataccatg | acaataccaa | ccaagaacat | aataatcgaa | gctcttccat | gctcgggtat | 48420 |
| aaccttttga | accacctttt | agtcccacga | gggaagacac | aaaaacaaat | aattgcatat | 48480 |
| atacttgtgg | ttccagtatg | ttatatgcct | agcaacatgt | gttgaatcat | agacattggt | 48540 |
| ttttttttca | tatatgtttg | atgaaaacag | aaccatgaaa | taacaagtct | tttaacttga | 48600 |
| gatatatcaa | aaacatatta | ttttctgatg | gagccaagaa | cttgactacg | gaaggagctt | 48660 |
| gcaaggacgt | atagtccatt | ggattttaagc | caccaataac | aattgggtca | actgcaatgc | 48720 |
| gagcttcaaa | atgggtgtag | aagggtacata | ggcatgatcg | gtcttaaaag | ttcaagtttt | 48780 |
| gtttttcttt | tttgtgtgtg | tagaaaaata | caaagccatg | atgggtctta | agagttcaag | 48840 |
| gggtcaagat | caaagtaaga | tgtgtatat | caacaccatt | agaagcagaa | tttcttagag | 48900 |
| caaaggtatt | gcacgatctt | gtatccttgt | taacgacaag | actgactaat | tggctaaagc | 48960 |
| tctaatacct | attggttgtg | gttatgtatt | tccctttcat | tggctaaata | tccgaacgtg | 49020 |
| aggaacacca | tgactgttgg | atgattttga | tcatttttca | acaagtttct | tttgttattg | 49080 |
| gtcaataact | tttgctacaa | atctacttgt | gtaattaatt | tcttacgtgg | ccaaaatgcc | 49140 |
| caaaacataa | catgtgccgt | tcaagaaaaa | aaatgctcaa | tgcatgatcc | ttgtcccaca | 49200 |
| aattaccaca | ctctagtgtc | cccacataca | accttcgata | catgagagat | atggtagaaa | 49260 |
| tttattgtgc | ctttcatttg | aggatattgt | aaaataaaat | cataaaggaa | aaagaggaag | 49320 |
| aagaactcat | ccggattgta | gttatctcca | ttatccaaca | acaataatcc | ggatgaattc | 49380 |
| ttgtgttaga | gacgtagagt | cttggttggg | atcagagaaa | cggctcttgag | atcatgggtg | 49440 |
| caaacaaaga | tctttcctac | aaaattgaaa | ctcgatcgag | tgcttttctca | gagtcagagg | 49500 |
| tttatgtgta | atagagatac | acttaaccat | tagaccacac | cgtagtgcaa | gaaccttact | 49560 |
| ggtaagaggt | cccagaacga | tatccattat | tttgtagtgt | gaggccacac | caaccgccgc | 49620 |
| aatgttccaa | tatatcaaag | ggattataaa | tcataatgag | atactagaac | attggcgtgg | 49680 |
| ttaatgtcat | ctccagcaac | ccaagaataa | tggatatcat | tatggcccgt | atacacctct | 49740 |
| gaccagagca | attttcacca | tatgttatgg | tctgcgacac | tagtttctga | accaagaaac | 49800 |
| tagtttagct | ttctttcttt | tttgacttgt | gatcagcaat | gaaatcttga | tttcttggga | 49860 |
| agaaaggaac | cgattgtgag | acctgatctt | tatgttgaga | agagtgtcac | aagcgtttta | 49920 |
| atccaagaac | ttctttgttt | ttgaataact | caaagcattc | tatagttcaa | atcaatctct | 49980 |
| ttctgaatgt | agttgccaac | gacggcaatt | gtggacaaca | ctatgacaat | aaaactacac | 50040 |
| aaacaaatgc | atagaattgg | atattgaaat | ctgaatttag | gtccagaaca | taacttttat | 50100 |
| ttgaccatat | attcgaatgc | acgagatgtg | cattctgaat | agtgatttaa | aatcatatac | 50160 |

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| | | | | | | | |
|-------------|-------------|------------|------------|------------|------------|------------|-------|
| aaagaaagaa | atagaaagct | tgttaactct | aaatgaccaa | atggatgaaa | gagcaacaac | 50220 | |
| atggtgatat | gatatacaca | tgtattatga | aacttggctt | caacaaggta | acttgaaacc | 50280 | |
| catgtaacga | ccagagacat | aatcattcca | aacatcaaga | gctccatagc | ttgtcatcaa | 50340 | |
| cacaatactc | aatgccatga | cgataccaac | cgagaacaca | atgatcgaag | cccttccata | 50400 | |
| ctcggttatt | accttttgaa | ccacctttag | tcccacgagt | gatgccacaa | aacatataac | 50460 | |
| cgcaaata | cttgcggttc | cggtatgttc | catgcctagt | aataagtatt | gaatcgcaga | 50520 | |
| catcgttgat | gaaaaaagaa | ccatgaaaga | acatgtcgct | gcagttacct | ataacaatat | 50580 | |
| aaacagagta | tttaaaactag | agatcgataa | acaaaacaga | gtattttctg | atcgagccaa | 50640 | |
| gaacttaatt | acctcgggag | cgataccaac | ttggagaaga | agaggactaa | tgagcattcc | 50700 | |
| acctccaata | ccaaaaacac | cacccaaaac | tccagcta | at | agagccatta | cagggaacat | 50760 |
| acacttgttt | gatcttgctc | catcatttga | tctcaaatct | tctacatcct | gcaagcacia | 50820 | |
| aattgtttta | agacattcat | cgattctcgt | ccttttttta | aaaactattc | aagtgtttgt | 50880 | |
| tagatttggt | tgaaatctaa | cctttactga | gacatggtaa | tctgattggt | gttggtcttg | 50940 | |
| aacattgtca | ctgaagcaga | tccagagagt | gaagaagaga | gttagtggt | tttgagacga | 51000 | |
| tgaaatgagc | cagtaggcgt | ttccacatgg | ctcgatcgat | atgattccct | gcaaatataa | 51060 | |
| atcatgaaat | tcttaaaaaa | taaaagaaaa | tcttgaattt | gttcctttca | tatatatttt | 51120 | |
| tatgaagtca | cattttcaatg | tactgtaga | gaaatactgt | gttatacttt | ctttcttgaa | 51180 | |
| aatgacataa | aaatagtagc | cctaagcatc | attgaaaggg | taaggaatct | aaaaaagtc | 51240 | |
| aaatcttaaa | gaagatccta | ggaagaaaaa | gacacgtaag | tagtgtttgt | atgtttgatt | 51300 | |
| ccctttatta | ggaccatctc | aaaactaaca | aacattattg | atgacctgtc | tttcacgtga | 51360 | |
| acaagtctgc | tatcgctttt | catcaaaaaa | aaaaaaaaa | gttcctatc | gtttttcaaa | 51420 | |
| cgcatcttta | ttcttcacca | cggtattcca | aaaaacaaaa | aacatataca | agactaaaaa | 51480 | |
| aaaaagatgt | catgaaggta | gatgagaaaa | attcaaactg | gtttcattta | cttctcaaac | 51540 | |
| attaaacata | aatcttaacg | ttcaccta | tactccatca | acgtgatttt | gacataact | 51600 | |
| ttctctgtat | aatcttttac | gtctttgaaa | tatacctaga | taaagcaaaa | aatgtaattg | 51660 | |
| gtatataaaa | accaactgaa | aaataaagga | atatcttaca | gaatcatcat | tttgacatat | 51720 | |
| ttttattctc | ggcatagtt | ttttcctttt | atggtaaaaa | aaattacttt | ttatcaaata | 51780 | |
| gttttagaaa | gtttgggttag | aggtattagt | gaaatgaaat | ttacaagtca | gccaattaaa | 51840 | |
| aataataata | actcaatgaa | aacaatatta | actattccaa | aaaaaaaaat | cattcaaata | 51900 | |
| ttatgcaaat | aattcttttt | ttttctggat | aactatgcaa | agttgcaagc | ctttttggct | 51960 | |
| ttttctttct | tgtttttttt | tcctttaatt | ttctgtgttt | tgtctctagt | agtctaaatt | 52020 | |
| gtcaattcca | aatttcaaac | ttttaagcag | atctataaaa | gacattaaat | acgattcatt | 52080 | |
| aaatgcaggc | aacattaatt | ctaatactaa | taatgaaatt | aaattaaatt | aaatgaaact | 52140 | |
| tttttagttac | ctcgccatat | ttgtttcctc | gaagaagata | aactgcgaag | taagaaagcc | 52200 | |

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| | | | | | | |
|-------------|-------------|-------------|------------|-------------|-------------|-------|
| aaataatgac | caaaactcca | agcttaatcc | atggaaacct | ctttggtctc | tgataatcct | 52260 |
| ccaagagagg | caactttaga | ctctcaatct | tatcttcttc | atcatcttct | tcaattctat | 52320 |
| tcgattctct | aatcttcacc | atctccgatt | ccaatctcca | ataataaagt | ccatttccaa | 52380 |
| aagtcttcaa | cgtcgaccac | gcaagaaaca | cagcgaagag | actcgtaatc | aaccagttcg | 52440 |
| gaaaaacaag | attacagatc | acaccaatac | taactccaag | aagcatacat | ggttccaata | 52500 |
| aaagagctaa | atcgaagtcg | attaggggtt | tgccaccaga | tttaggggtt | ctaacgaata | 52560 |
| gattgcatcc | cacgttagct | atagatccac | cagtaaccat | aaaagctgag | aagcttgaag | 52620 |
| ctgtctttag | atcgagaccg | gccacgattg | tcattatcgg | aacatataaa | cctccaccgc | 52680 |
| cgattccacc | ggcgcttgag | attgatgaag | ctaggaaaga | gagtaagccg | gcgatgatcg | 52740 |
| ttgatgttgt | tagttcgatt | cttggttggt | tgaattttgt | tgaaaaatcg | aggatatgagc | 52800 |
| ttgttttggt | gaggagttga | tcgacgggag | aaagaattga | aggttcttgt | tctgcgattg | 52860 |
| atggagtcaa | gaagatgatg | aaggagagaa | ttatagggac | gaaattgttt | ctcatttttt | 52920 |
| tgtttggggg | ttttggttaa | ctttttaaaa | gtttgggaga | ttttaggaga | tgttgggatt | 52980 |
| tttatgtatg | ttatttctgt | ttataacact | ttatatatag | ccatatagga | gagtgtgtga | 53040 |
| tgcttggatt | gtcaagtaga | aagaaaaaaaa | aaatatatta | aatagaaata | gaaatagaaa | 53100 |
| tagaaagaag | aagataaaaa | gagacaaatc | aacaattggc | aagtgggtgag | aaaatgaaat | 53160 |
| aataccacat | agaacttggt | tgggcattat | gttatttgct | cccaccatta | cctattactt | 53220 |
| tctcatactt | gttaaatatt | attatgtaaa | accagaataa | cttaggagcg | agacttttat | 53280 |
| ttaaataaga | tccactgatc | ttaaaagtga | gacttttgta | ttttttaaaa | atatgctaca | 53340 |
| gattttttta | tatagttatt | atataaaaaa | tataaatata | attaatatct | acaatacttt | 53400 |
| tgaaaactgt | tagcctcaaa | aaaatattat | ttcattaaca | ataaaatttc | agttaaagag | 53460 |
| actatataaa | tttctaaatc | acatttcaat | tcaattaaaa | actaaattct | ttaatctttg | 53520 |
| agtgaaatta | aagtaaacat | atatatagtt | ttattttggt | ttgtctgctt | tttcaacccg | 53580 |
| aacagagtat | tataactatc | aatattagta | aatgataagt | gatagtattg | gttcacttca | 53640 |
| tcacttagaa | gaacaaaatg | ataagtgaat | gatttcaatt | tctctgattg | atactttaga | 53700 |
| cagtacctac | ctagaaactt | ccagacatca | tgaacggctc | aatactaata | gtctgggttt | 53760 |
| agcttcttcc | aaacaaaaca | gttttataag | agatattata | aaattttgat | atattacttg | 53820 |
| caacatgctt | tatttaacgt | tcgtctctcg | aaacccatat | aggttaaccc | acaagccaag | 53880 |
| tgtaaaattt | tatatctttt | ggaaatcccc | atgttccgac | cacatgcaga | cagtttattt | 53940 |
| ctctaattgtc | aaacccacat | gcaaaaaact | ataccataaa | cctccaaagc | cacatgcaag | 54000 |
| taaaatttaa | ttcttttttg | atgggggagta | aatatactta | tgtgttttaa | tcgaaagatg | 54060 |
| atgaaacgaa | tgacgtaatg | agtcattctc | gtgttatttt | cccaaatata | tgtctaactc | 54120 |
| aagtaagcag | gtaattgtca | aatcaatgta | atagtttata | tgaaactttc | ctttattcaa | 54180 |
| tggcatactt | atcttttagag | tcatgagttg | gcgaaaaaat | aaacacttat | ctgttggtgt | 54240 |

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| | | | | | | |
|------------|------------|-------------|-------------|------------|-------------|-------|
| tcgttttatg | tagatcaact | tgctctttgc | atatacgacc | aaattgataa | taatataaac | 54300 |
| tatatatatg | cttatgtata | tgtttgcacg | taagtataca | atgtttgtcg | acattattaa | 54360 |
| ccagatatta | ttggatcctt | cacttctacg | ccgactaact | tgatctagct | agtaaccgat | 54420 |
| tatataattg | aataactatt | ttaagttttg | aataactatt | ttaaatttta | cattttctga | 54480 |
| tggtattaag | tttgaaatgg | ttatatagac | tcgttgtaag | aagatgtagt | taatatgaaa | 54540 |
| attctccaac | gataatcaat | tgtctgggtg | tatatctttt | tgttatagat | ttcttgggatg | 54600 |
| gaaagtttat | aatgccggcc | aattctaagc | tacacaaatg | aaaagaaatt | atttgtagct | 54660 |
| gaccacact | ctaactgcta | acctcgcttg | aagttggaat | agtatctagt | attatttttg | 54720 |
| ccatctgata | gtagattgat | cttaaagatt | tacctaacta | aaagagatcc | ttaaatcaag | 54780 |
| ctttcaattc | ttatttttcc | aaaaatataa | ctgtcttggtg | tgtaagtttt | ttattatggt | 54840 |
| ttgtagaaag | cctcaagatt | gcaatatagt | tctgaaattg | caacaaattt | tgttttattt | 54900 |
| ataaccaaga | ttaagtaatg | gttgattaac | ggtaacgttc | gattctactc | agttttcagt | 54960 |
| atacatatat | agatcggaag | cttcctacct | aatttaaacc | aaaaaattga | tctaaatatc | 55020 |
| aaactatatc | gatcttacct | aaatataaaa | agatttttta | tacgtacctg | aaaagtggaa | 55080 |
| accaaaccga | ccatgaaata | atttgaactg | aaatttaact | ttatttggaa | aaacaaatgt | 55140 |
| atgtattttg | attaaaggaa | ccaaaattta | aaactacaat | catatcacgg | cgccaaattc | 55200 |
| tcctatttaa | atatgattac | cgtagaagca | ttgaaatatt | ttataatttg | taaactatac | 55260 |
| attatcatgc | tgctggataa | atagtataag | gtttaaatac | gagactggta | tatattaaac | 55320 |
| tggaagaat | acaactatac | aagcattcca | taagacatta | atctttaggg | gtctgataac | 55380 |
| ctgaatctag | gacaacgaat | attccaatta | ttgggtgtac | aactacacaa | gataaatttt | 55440 |
| aacaaagaat | acaagttgtc | tgtttacaga | tttttatata | tagccatatg | gagaattaga | 55500 |
| tatttcgcta | aacctgaaag | aagacttaaa | tttcttctaa | ttttcttatt | tttagcaatc | 55560 |
| atgatcaggt | aagttcttta | cattatctag | aacaacctag | tgtacacaat | tttccgatgc | 55620 |
| actttcttat | attaatcaaa | agtgttgtga | actttttggt | taaagtcgta | gtcgtgtatt | 55680 |
| cgtaataaca | ttattgtaat | ctcgaactgt | ttcgatatga | ttttggctct | tggaaggtct | 55740 |
| cctgagtcgg | gcttgtacta | tgatccaata | gtaaataatc | acttaaaaag | caacataaac | 55800 |
| gataaaaata | tgataagtat | gagccggctc | taaaagtcac | caattttcca | ttctcatgat | 55860 |
| caaacataat | tagcaagtat | tatatattgag | atctcataat | agatcgtagc | ttttcattac | 55920 |
| ttgttgaaat | accaagattt | taaaacaaac | ttatttagtt | tctacaccat | caatttttct | 55980 |
| aagcttatct | aatcgatata | acttttaata | aatgaaacaa | gctgtataag | tttattgata | 56040 |
| attgttatct | ataacatggg | gtataagtca | ttctggcgcc | gaatgataac | gcgaactaaa | 56100 |
| tacatatttc | atataaaaaa | attgttttaa | aaaaatatat | ataataggag | tatctttcaa | 56160 |
| gtatatatag | ggtttacacg | caacacgtat | taccatttac | caacttgcac | tagtctaattg | 56220 |
| atattgtgtt | gtgatgtatt | ggtcaagtga | agggggatca | atttctataa | tacaaaaagt | 56280 |

| REN-00-118 seq listing ST25.txt | | | | | | |
|---------------------------------|-------------|-------------|-------------|-------------|--------------|-------|
| taacaccaac | ggtttggaat | tgtccagact | tttagtttgt | tgaaaagttg | tagttttaact | 56340 |
| ttaagctcaa | aatcattcgt | ttatggtata | aaagaacaca | tgtacaaatt | aatttggtcaa | 56400 |
| cgataaacag | atggctaatt | aattgtgtgg | gtttcaacag | tgatcagtac | aattgaaatc | 56460 |
| tgattttaac | aaacgagttt | actttcgtaa | atccgattcg | gtgttcgtta | ttggtgatca | 56520 |
| accgtgagat | tctctccagt | gttaagcgtg | ggaatttcta | tcgatgcttc | tctttggttt | 56580 |
| gccttctttt | tctttttaat | gcaacaacaa | caaagagaac | acacggaaat | taccaagatt | 56640 |
| attaccaccg | cagctatcac | cggagctatg | attcttctaa | acactttacc | tacacacata | 56700 |
| aaacaaaact | ctatgttata | aagactatca | aaggaaattt | gtttaaatta | gcatttcaag | 56760 |
| gttcataaaa | tattttaaatt | catattttaca | tacatgtata | gcagttgtta | taaagagaaa | 56820 |
| atttcgtcaa | gtacaatata | tttaaattac | acttccatat | catcaaaact | accatatctt | 56880 |
| agctaaaatt | tatataagta | cgcttacatg | tattatccat | agcaatctgt | gtaaaaaatg | 56940 |
| ttgattttga | taaatagttc | caatcgttga | caaaagaaag | agataaatga | tccacgttat | 57000 |
| atatataaga | tatgttttaa | tgtaatttaa | aaaaaaaaata | tgatatataa | catgaatatg | 57060 |
| ttgctccaat | cctaagtgtt | cgtcaaggaa | cacgatgaat | attgctaccg | atcttttatc | 57120 |
| agggtgaata | tgaatattag | tcggtaaatt | cagtttggac | aaaaacaaaa | caaaagagtc | 57180 |
| cgttacttct | aattcttgat | gatttagtcaa | acacctaatt | atattatcat | atgcataagt | 57240 |
| tgctattaac | cctaatttca | catcagttac | acttacatgt | ttaggtaatt | ttcagtgaag | 57300 |
| acacaaacat | aatgaaaaaa | aaattcaaac | cctagcgtag | aactatatatt | tatatatatatt | 57360 |
| tattctcacc | taacttgaat | gaaaatgatt | cgtcggagct | aggagtatca | ttttctccgt | 57420 |
| aaagacgttg | tgggggtggt | ggagggtggtg | gaggtggagg | aggaggggggt | ggtggcgcca | 57480 |
| aaaaagtggc | tttatatgtc | aacatacagt | tcgaagagta | aaccagagca | aaacgtttac | 57540 |
| cataacaaca | atccttagtc | tcattatacg | ctgatttcaa | gcacctatag | caatcatact | 57600 |
| gattcagatc | gggtgtgcac | tgtaccaatc | catttagatc | gtaaacttct | ccaagataac | 57660 |
| tgacatgata | agtttcttcc | gcaaaatatg | aagagctcga | ataggcttct | tgtatcaacc | 57720 |
| ggtccatacg | atattccacg | gtgttaatga | aataaaactg | gtacaacgtg | gtatcgtaag | 57780 |
| atgtccatgt | aacaaatgga | ccttgatcaa | gaatcgagaa | aatcttacgg | ctggagtacc | 57840 |
| tgaggaagca | ttcttcatac | catatgatag | cttctttttg | gaccggacac | catataaaaa | 57900 |
| cgtttttgga | tgctcttgag | atgcatgttt | cacaagttga | ggacgagata | tctccgcgac | 57960 |
| atagataact | tccgtacact | gttgtgggtg | gggaagaacc | cgaggcgtag | ctataaaagc | 58020 |
| ctttgttgga | tgattgagaa | tcaagaacgg | atattaaagt | atctagattg | gatttgtacg | 58080 |
| aactgttcgg | tgtgtagttt | cctgatgtgt | agcaatagct | aaggagggtat | gttggttgtg | 58140 |
| cattaaggggt | tttgatgaga | agaaaagaga | gaaggaagat | gagttttgat | tgatgaagag | 58200 |
| ggagagagaa | catcttcggt | tgagtaaact | tgttgtgttc | ttcaacataa | tatcgagcta | 58260 |
| taggtctata | ttatttgaat | tgactcttct | tatgtatatc | cttttagtag | acgatatagt | 58320 |

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| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|-------|
| ttggttcgca | tattttcatt | tttaaaaaaa | ctatacacta | ttttgtttcc | ctctttcta | 58380 |
| ggtcaacttt | gggccaggct | gtcctaattt | gactttaatg | attatgaact | tgataatgta | 58440 |
| taaataagga | cgagggtttca | aacttaatat | aaaattatat | gcatgcctat | atgcctttta | 58500 |
| gctgattttt | tttctataag | aaaagtccaa | tcccttttac | gagtaaattt | tttaagtttg | 58560 |
| ggaaaactat | tgatttgatg | aaactaggaa | tttattattt | taaagtatat | cttgaaagat | 58620 |
| attaataaag | ataaactatg | taaaattatg | acttaataaa | tcgttttact | aaagtaattc | 58680 |
| gtgtggcaga | gattttattt | gaaagatcga | attcaaaatt | aacataagaa | ttttgcccac | 58740 |
| tttcttattt | cgattttgat | tttaataaaa | caaaaatcat | attactttta | gatttttagta | 58800 |
| cttttctttt | aaaatgtacg | taatcatttt | aacaaaagtt | acaaaacggt | tattttcttt | 58860 |
| tacaagttca | atttaaaatg | actaattcct | ttctattatg | ttgttcatga | taatcatatt | 58920 |
| atctattgca | cagtctcaat | ctctcaaatt | tcaaataact | atctttaata | ataagttcta | 58980 |
| cgacgtgaca | acataagcat | aatttttttt | tcccaacgta | tattaatcaa | acgcgtaaat | 59040 |
| tgtgcaaata | attaggtgac | aataagatta | tataaagcac | taatgtcggc | cgtcaacgaa | 59100 |
| aacaaaaaaa | gaacactaac | gtcgaagtc | atatagataa | tggctagtaa | aaacaaaaac | 59160 |
| aaatatcgta | gaggtcatca | ggccgaatgt | tacaagttac | aaccaaattc | aatacacgaa | 59220 |
| aaccaataaa | atgtttccaat | aattttttgt | aagcattaaa | aacaaaatgt | aatttcataa | 59280 |
| tgtaataaca | tatctatgta | aattatgttg | gtgacacata | cacttttggt | caaatcaagt | 59340 |
| gaaataaact | ggacatctct | tgtcttttagt | cgcactcaac | aacattccat | cccaaccgat | 59400 |
| ctcaatataa | cagcttgcg | acatcttggt | actcttacta | tgccatgtgt | acaccttaaa | 59460 |
| acgtatcatg | gaccttacct | tcaaacggaa | cattatcttc | ccttggttcc | tgtctcggtc | 59520 |
| catctccatc | caacggtcct | tattcacggc | cattgcgggt | cgacttaagg | ctccgtcgat | 59580 |
| cgagctcgtg | ttctttgggt | cttggtaaaa | cggattagta | agtttagtcg | aaccgatccg | 59640 |
| tttctctttg | tagtaaaccg | atccttccat | ggaatcgtag | taaatgccga | cgttttgggt | 59700 |
| cgggttatga | gccgttatct | tgaagcttat | gtgtgacgtc | tcgaaccggt | cgggcctgga | 59760 |
| tagaccagag | attgagaacc | cgcggatatg | gacgcgtggt | cggtgtgggt | gtagactgat | 59820 |
| ccataagatg | aaagtgataa | tgccataaca | tagtaaaaga | gataagaaaa | tggcacatat | 59880 |
| gagtttagag | actcttggtg | tgaggctttc | tttaaccgga | tgaacgatgt | tactcgccga | 59940 |
| gtggtgacgg | gatatgggtc | gcgttgatgg | gttcgatcga | accggtaaag | aatcgacctt | 60000 |
| gttggtgcatt | tttttttttg | gggtagattt | agtgttagtg | ggtcattgga | agtaaaatga | 60060 |
| tgtaatgtga | ggtttatgta | gcaatttttt | ctaaaagaaa | aacattggtg | gtagttaaga | 60120 |
| agaaagcaaa | agataccttg | gaaaatatta | tggttattac | actttgagaa | gaaaagaata | 60180 |
| gacaactaag | tatctaaatt | tttaactaaa | aagatagagg | aaaactaagt | agctaaaagt | 60240 |
| gcattgcttt | tccgtatatg | caatgcaaag | atttagatgc | aatcataaag | ttcattaaaa | 60300 |
| aatttagacc | aaactccttg | tccttactag | ctagttcctg | aaaccaaggc | cggcccaatg | 60360 |

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| | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|-------|
| cctgaaactt | gtaaaatttt | taatcgatta | attagctatt | agctatgtgg | attatcaatt | 60420 |
| aagttgatat | atttgcattg | aattttcttc | tctaaaaatc | gattaattta | ttttgagcgg | 60480 |
| atttgagggt | tcttgctgga | gggacatact | cctgcaaagt | gtccatatgt | taagagtttt | 60540 |
| gctaacatgt | gatgtgaagg | agtgccttgag | aagtatttga | tattataaaa | aagaaaagtt | 60600 |
| ttagaatttt | gtgtaagatt | tcgaattaac | atatgtccta | ataccctgtt | agaaattttg | 60660 |
| aaaaaggccc | taagtccaaa | attagatttg | cttcgagcta | gatagaattg | aggctacttct | 60720 |
| ttatttgatt | ttcttgtaaa | gtacttcatc | ccaactccca | agtagcccat | atgtccaaaa | 60780 |
| ctaattaact | ataaatgcat | aattttatatg | agggtttgta | aaaatatttct | attttcttag | 60840 |
| ggtttgata | ggcatcta | ttacaacta | caagtttagac | tttagctctt | agataatagc | 60900 |
| ctagttttac | aagcaaggat | aaaatactca | tcttagaaac | aactctta | cattgtagtt | 60960 |
| tagcttagtt | acttttaaac | aaaacaacc | aatgtatgg | gcttgactaa | tggccagta | 61020 |
| atggccttct | tgactaactc | cattttgact | ttcttcttcc | tcttcccatc | atttcttctt | 61080 |
| ctttttcatc | ttgatttatg | atctctgctt | ttcatcttct | tcttctcact | taatcaaaag | 61140 |
| actcaattga | gtcaattctc | aattctcaac | agtaacattc | tttttttgct | acaaaattct | 61200 |
| tcaataataa | cttcaaaatt | atgttatctt | agagcttaag | tatatattat | aaggatactt | 61260 |
| tttgtttctt | acattgaatt | tattgtatct | atgatgttct | aattatttct | tgtgctttga | 61320 |
| agactaacat | cttgatatat | cattttcaga | attactttta | gaaaattcgg | aagtatatag | 61380 |
| tagttttttt | ttggtaaacc | ggaagacgaa | agtatatagt | tgaaccataa | ttcagtacta | 61440 |
| atttgcctc | aacttttttt | tttttgggtg | gttcctcaat | cttattta | agtagcacta | 61500 |
| atttcacaaa | aaaacgacaa | aatgaaatat | agatcaacaa | taattaatat | ggaccatta | 61560 |
| atatatacag | ttttcaagac | taggatgaga | caataaaatt | gtaaactcta | ctaatttttag | 61620 |
| caatatctat | tgtcaaaaat | taaacaatct | gctatccata | ctttcaatac | gcatacacia | 61680 |
| acaatttatt | gtttcgaagc | aaacacatat | acagcacaaa | acttttatatt | agtattgtct | 61740 |
| ttgtatgact | attaaaactc | gatgttatag | tggttaagtat | taaaatgtat | ataataaaaag | 61800 |
| aaaaaaccaa | aacatatata | attatctttc | atctaaatag | taaaccaa | atataaatat | 61860 |
| atagtataat | gttttgtaag | tttttaaatt | cctattattt | tgcacgataa | gactcaatta | 61920 |
| tttaagaaga | gaatatacta | ctaacgtaaa | atctataatg | gcccaacaaa | attaaatatt | 61980 |
| ctaaaaagtc | acattttattg | ttgaccttca | caaaaaaaa | aaactctcaa | ttttctgttt | 62040 |
| cttataacaa | cataacaaac | aaaaaaaggc | caaagagta | ttttctccg | aattcgccga | 62100 |
| cgactaatca | cgagatggcg | ccgccggtga | cggagcgggtg | gtgcttagct | ttgattcttc | 62160 |
| tctttctctc | cttgttcgtc | caatcttcaa | cggcaattta | ctgcggtgct | gaagattgtt | 62220 |
| atgctcttct | cgggtttgtt | catcagcttc | cgatcttcat | tttcaaattc | agattttgat | 62280 |
| ttcgttctct | taatcgtttt | gcattatcga | tttcagagtc | gctcaagatg | cgaacgcac | 62340 |
| ggatatcaag | agatcttatt | ataagctctc | tcttcaacag | taaggatgat | tctggatttg | 62400 |

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| | | | | | | |
|------------|-------------|------------|-------------|-------------|-------------|-------|
| tttagacatt | gttcagattt | gattttgatt | agtgttttgc | taatctttgt | ttctcaattt | 62460 |
| tgatgattcg | atttagtcat | ccagataaga | atccggatcc | tgaatcgagg | aaactgtttg | 62520 |
| ttaaaatcgc | cactgcttat | gaggtacttc | aatattttta | tgattctgaa | actttggaat | 62580 |
| ctggcttagt | caatcccat | atatatctct | gcgtataaatt | tcttaggtat | gatccagttt | 62640 |
| tagcgaatcg | agaatcatta | cattgggaga | tagatttgat | agtgtatggt | ttttttgtta | 62700 |
| tagctgagaa | taattgaaca | tgaaagtttc | tcaaaaggat | tcgtcttggt | gcagattttg | 62760 |
| aaagataata | ctactcgggc | acaatatgat | tatgcaattg | aacatccaga | agaggttagt | 62820 |
| agaccattat | tctgagaatt | ctcaactgtt | attcttggtt | tgtgactttg | tgtacattgc | 62880 |
| ataggtgaaa | gatctttgaa | aaaaattctg | taccgctttg | tgtttctttg | tatataggta | 62940 |
| ttttacaaca | ccgctcaata | ttaccgcgcg | aatatggac | ataaatcggt | acgatgttat | 63000 |
| tgaatgtttc | tgatgacttt | tctttcggaa | aaccattggc | ttttttaact | gatgttacga | 63060 |
| ctgcctaata | tgtgttctag | gatccccgtg | ctgttcttgt | tggctctattg | gtggttttat | 63120 |
| ctgcatttca | atatctgaac | aacgtggcaa | ggtataatga | ggtacgtatt | agagatcggg | 63180 |
| attctctcac | tatgtgttaa | tagtctcaag | tagttgttct | gtatcgtttt | tctgatgcat | 63240 |
| gccagaccta | tattgtttata | tatttaagca | tcagtactac | tcattctatat | atcacatgta | 63300 |
| tgtgcaatac | ctaatacacat | gtatgtgcaa | tacctaataca | catgtatcat | agcatctcaa | 63360 |
| gaaacgtaga | atttgacctc | ttgaatgtga | ttcatatact | ttgttatgag | aactttatgt | 63420 |
| agcttaaact | cttaaagcct | ataattagaa | attatacaaa | cctcggctca | ttttcttaat | 63480 |
| gagatcttgc | attattgttg | tgatgcaggc | tatagcgacg | gttaagcgaa | cacctgctta | 63540 |
| caaaaataag | ctcaaggcat | tagaactcga | acgcacaggt | ggagtaagta | acaagaagaa | 63600 |
| gggttcaaag | cagattgacc | agtatgtacc | cccagttatt | taaattgcct | ttttattagc | 63660 |
| tgagaatgtg | tcgtatcgct | gaataaatca | taatcattta | ttgttttggc | aggaaactac | 63720 |
| aggaagagct | aagcaacgaa | cttgacttac | aatcaaagg | agctgaaaaa | ccatcgggtct | 63780 |
| gggaacttct | cgggtgttca | ttcattctcc | taccatacac | tatcattaag | gtttcatttt | 63840 |
| cttaaaatac | tttactgtg | ccacatttca | cagattcctc | catatcctac | tttcccagaa | 63900 |
| tagctgattc | aacattctgt | tatcttccag | cttctagtat | ggtacagcag | ttgggtgtgg | 63960 |
| agatataagg | tcaagaaagc | tccttattca | tgggaagacg | catcatacct | aacccgaaga | 64020 |
| tcacttagtg | tgcttgccga | cgcattgggt | aatctaggta | tccttctatt | ctctaatttc | 64080 |
| caacctgaac | cgacatattg | ataaagattg | atgtctaata | caatgtgatt | aaatctattg | 64140 |
| tgcaaattcg | atatttttca | gatgaatata | ggaaggaaga | tctggtgcag | aaaaggctgt | 64200 |
| gggagaagca | gaatcttgag | aattactttg | cagaaatgcg | taaagaatcg | aagcggagaa | 64260 |
| gataggtcac | ttgtcgctta | ccatgcaacg | atacaaaata | caattcgagt | ttcagagaca | 64320 |
| ccatttttac | cattatcact | ctactttaat | gttataagaa | cgaaccagtt | acaagaagag | 64380 |
| acactagtat | aattgtacgg | taccaggaac | caaactctca | tttgtcatat | acaagatgaa | 64440 |

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| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|-------|
| atcatgtctg | tcaatggaca | tggtccagtt | ttgactcagt | tttgtttaaa | accaatttgc | 64500 |
| tccgtggaat | gttcaaattct | atctttgata | cttgaattcg | agttctaaaa | cgaaacatta | 64560 |
| actttatgat | cagtcaagaa | acacagtga | gcaacaagat | tctgtttggt | tatattaaaa | 64620 |
| ccggaggaaa | ccgatacaaa | aaaatacatg | agtgagagga | tacaacgttg | acatcaaagg | 64680 |
| gacaaaaact | aaaatgtgaa | acgcttgcg | atttgtttat | acattgcttt | gcttgtagat | 64740 |
| cttgggtgcc | aacacttgct | ttccgcacat | tgcgcacact | cctgcacaac | cacgaagagg | 64800 |
| caattccatc | agttgttaag | ttactctata | atatcactat | ccaaccagag | gtaagaattt | 64860 |
| agtagagtaa | aacagatgta | ttaactat | acctttgcta | taggcacatg | tgtgacagta | 64920 |
| tttaccatct | tgatgcactt | gctgcttgca | gatcatacat | tttgtggtac | aggtactgta | 64980 |
| aggtgaccat | ctacaaggca | aagaaatatt | acaatagaaa | attagaagca | gaacaagagt | 65040 |
| aaacaaaact | aataactcaa | ctcaaaaaag | acaacacaaa | cattcacagt | tacaaatatc | 65100 |
| gctagttcca | tgagaagttg | tacatttact | aatgattctt | attaaaacct | agaggactag | 65160 |
| cgaagcgggtg | gagttctaca | ccctagatgg | caagagtcca | gtagcctaata | caactcaaca | 65220 |
| gataatacaa | acatcccaaa | cttaaaaaat | ttatcgctat | ttccatgaga | aattctataa | 65280 |
| ttactaatga | tttttagaag | aacctggagg | gatcaactca | aaaaagacac | tacacgaaac | 65340 |
| tacaatacca | atattttctta | gaagaaacta | caggaaacaa | aaccaatacc | aaactagacg | 65400 |
| atacaaacat | ccccaaagct | acaaattaat | cactatttcc | atattgcaat | tcaaataatg | 65460 |
| aaaagtagta | aaatgaagat | ggataaacat | aagaaatgca | tacctattct | tcttggagag | 65520 |
| aagcttattc | tcattgattt | tacgaccacc | accttcagtt | acattacgag | caccatcctt | 65580 |
| ccacttatca | ggaactatca | ctttcgataa | cttcttctca | cctaaaatta | aaagataaaa | 65640 |
| acaaattgag | tcaaaagggt | catactttga | actaaattag | agatcctaca | actaggggtt | 65700 |
| cgatctaaga | aaccaaatac | gaatcagaga | tcattaaatt | tcttcttgaa | acatgtaatc | 65760 |
| gattaagcta | gaaacgaaac | gaatcacaaa | tcctaacgcc | aatagtatat | attcaattag | 65820 |
| aattaaaacc | gatccaagta | tagattgatt | caattagaat | atggaattca | aagagaagat | 65880 |
| tattgatgga | cttacactta | tcgcaaacca | tcttcttctt | ccgagagaga | aatatgaaga | 65940 |
| aaccctaacg | cctaaatcaa | ttcgaatggg | ttagagttac | gacgaaaact | tatcggtggt | 66000 |
| gaaattttta | tctatgttta | aatatatatt | ttttcctttt | ctggatttgg | aaagtcggat | 66060 |
| atgtctcgtc | aaaactcata | gcctcacagg | tattttatgc | cacgaatcgt | aataatccac | 66120 |
| gtggtacatc | aaccaataaa | aacgttccac | gtggtacaac | cagcgagata | ccaagaactt | 66180 |
| cgagaccttc | ttctccagat | agaggctttc | cggtaaacgg | caaataccct | tttccttcac | 66240 |
| tttcttcgtc | ttctcgaatc | tgagagaacg | agagatcaac | aacaatggcg | ctcaaataca | 66300 |
| aactcgtctc | tcttctcttc | ctcatagcaa | cactatcatc | cacattcgca | gcttcgtttt | 66360 |
| ccgattcgga | ttccgattca | gatcttctca | acgaacttgt | atctctcaga | tcaacaagcg | 66420 |
| aatcaggcgt | aatccatctc | gatgaccatg | gaatctcaaa | attcctaacc | tccgcttcca | 66480 |

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| | | | | | | |
|-------------|-------------|-------------|-------------|------------|------------|-------|
| cgccctcgccc | ttactcgtta | ctcgtcttct | tcgacgctac | tcaactccac | agcaaaaacg | 66540 |
| agcttcgtct | tcaagagctc | cgtcgcgaat | tcggcatcgt | ctccgcttca | ttcctcgcta | 66600 |
| acaacaatgg | atctgaagga | actaagcttt | tcttctgtga | gatcgagttt | tcgaagtctc | 66660 |
| aatcttcgtt | ccagctcttt | ggcggttaacg | ctttacctca | cattcgtctt | gtaagtcctt | 66720 |
| cgatatcgaa | tctacgtgat | gaatctggtc | aaatggatca | atcggattac | tctagattag | 66780 |
| ctgaatcaat | ggctgagttt | gttgagcaac | gaactaaact | caaggtcggt | cctattcaac | 66840 |
| gtccaccgct | actttcgaaa | ccacagatcg | gtattatcgt | tgcgttgatc | gttatcgcta | 66900 |
| ctccgtttat | catcaaaaga | gttttgaaaag | gagaaactat | tcttcatgat | actagacttt | 66960 |
| ggttatctgg | tgctatcttc | atttacttct | ttagtgttgc | tggtacaatg | cacaacatta | 67020 |
| tcaggaaaat | gccgatgttt | cttcaagatc | gtaacgatcc | gaataagctt | gtgtttttct | 67080 |
| accaaggatc | tggaatgcag | cttgagctg | aaggatttgc | tgttggattc | ttgtatactg | 67140 |
| ttgttggtt | gcttttgccg | ttgtttacca | atgtgcttgt | tcgagtgaag | aatattactg | 67200 |
| cacaaagggt | gattatgctt | ttggctttgt | tcatatcggt | ctgggctgtg | aagaaagttg | 67260 |
| tttacttgga | taactggaag | actggatatg | gaattcatcc | gtattggcca | tcgagttggc | 67320 |
| gttgattaca | tcacacttga | ggatctctgt | ttcacaagg | aatggcttta | gttttggaag | 67380 |
| aacagttatg | ggaattgagt | aatgatgttt | ctggatgttt | tgtgtttcga | tttgaaatac | 67440 |
| ttttgaatcg | gtgtagtact | actatttcag | atggtttaaa | actccttact | gttacattag | 67500 |
| tccattgtta | agttatttat | ctgaatgagt | aacttatata | accaagaata | tgggatcttt | 67560 |
| agtcgattga | atataggaac | catatttgga | aattcaggta | ctgtttcttg | agatcagtct | 67620 |
| aggattgttg | ttatttggtg | cattgacact | tttagagttt | ctatgtgtct | tcagccttgc | 67680 |
| gccccttgct | tactgcatct | attcagaaaa | agggactttg | tgattgagga | tagtgtttct | 67740 |
| gtttaagcat | tatgggacct | tatgttttgt | cgttgactgt | gtcctcttct | cgttttgctc | 67800 |
| tctgttttag | aatgagtcta | agtaaaaatt | aggttcaagt | ataaatttgt | gatagagatg | 67860 |
| gagtttcgga | ttaggttttag | ccattcgaca | tgacataggc | ttgcgaggt | gggaaccaag | 67920 |
| tctcttcttg | ataggctttt | catttgtgta | cacacatttt | gtgagatcat | ttcaacttga | 67980 |
| aaattgcaaa | gcatgcctct | ctgatacatc | agtatgactt | tgattgtttg | tttgcgttta | 68040 |
| ttgtgcaatt | aatttttttt | tcatcaaatg | aattttacaat | cttcagcagt | taaaacagat | 68100 |
| tatacttggt | tatggtaaaa | aaaaaaaaat | gtcacactca | cacgcaaaat | tgaaaaagtt | 68160 |
| tcagatttca | ctcgagaaaag | tgaagtaacc | tatgatttgt | cttttgctga | atcaaatggg | 68220 |
| tgatggaaat | tttctttcgt | ctttgaattt | agttggacaa | tctcgactta | gttagctcat | 68280 |
| tcgatccatt | tctagccccc | acagaaaaaa | tgagcttaat | ccatatgagt | gtttcacttt | 68340 |
| ttctaataag | tttttggggg | cttctcgact | tgggccttga | gttttatttg | tacgttgtgt | 68400 |
| atgggtctaa | gtcttgctaa | tccacgtttc | ttacatattt | ctttaggtct | ctcatttgac | 68460 |
| aatttcgggt | cagattgatc | ttcgtttgag | ttggactggc | gcatgttcgg | gtttcgacat | 68520 |

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| | | | | | | |
|------------|-------------|------------|-------------|-------------|------------|-------|
| attgctatgt | ttaatggatt | tacgactcta | attttaatta | accactagta | aatttggtat | 68580 |
| gtatgcttct | tattattaga | gcagcccaat | cattatcata | aaaatagtcc | attagcccat | 68640 |
| gtgtttaagg | tttctttcaa | gatagattca | gagataaatt | tgtgtaatga | gaagaagaga | 68700 |
| agtaacttta | gaattgctga | tggtacaact | ctcttctcca | tcttttatatg | aaattaatct | 68760 |
| aataagatth | cattagtgc | cttggcgaac | atttaaata | actctggact | aacaaaacaa | 68820 |
| aatcactagt | ctaccataat | ttaggtttgc | aaatthttta | agaatactca | tttagtaaaa | 68880 |
| tttaggtaaa | taaatattta | aaaactaaat | tcattttcga | cgaggatatt | gaactaacc | 68940 |
| aaaggcacga | ggtgtcttga | aagtgactaa | gcacaaatth | tcaacctata | taaaaaaaaa | 69000 |
| acacagcctg | tctcacacag | tcacattgta | tgttattaca | atttaagaca | atgacgattg | 69060 |
| catatacata | aaaattattt | atacacacat | atatcttgaa | aacgtgaagg | ccacaactca | 69120 |
| aatatctcaa | tatgtatagc | tttcaaaatc | taaatagaaa | agagcaaggc | taatcatttg | 69180 |
| atttgacagc | aatataagtt | tttgttgctg | cttgtatgga | ttatgaatat | attattagtc | 69240 |
| actaattagc | tatggttaat | ataacaataa | atgacaactt | tattgattat | tattgataaa | 69300 |
| caaagcaaag | tctttttgta | actagcataa | aagaaaagat | gttttagaggc | atgtatttga | 69360 |
| aaactgtgaa | taataaaaaat | tcatatgatt | tggaattht | gttttcta | gatcggatag | 69420 |
| ctttatccgt | gaacttccca | ttttcttgct | tgtttttagat | ttgtggatct | tattttcttc | 69480 |
| aaatggtagc | aatcatttg | aaaaagcccc | acaatattth | gttgcattha | aagaaaaaat | 69540 |
| tgtcttcagt | tatacgatat | tagttatatc | ctgatctttg | tatgatcatc | tattacgcag | 69600 |
| ttactataga | tttagtgcag | actttcaaaa | ctataattgt | gctttgaaaa | tatgagtatg | 69660 |
| taaaatcagt | tatttttagtt | ttttcacgtc | accttttcag | attactatag | tttttcaagt | 69720 |
| tgttggacca | aatcttatga | ttgcgttgca | tataacttct | catattgggt | agttagtga | 69780 |
| cgaaaaaat | aattaaacac | aagaaaacta | taccatagtt | gaaccaatth | ttaaaaataa | 69840 |
| aaagacctth | ggactagtat | gtagttaacc | actatgggtg | ttaatthcct | tgaacgtcta | 69900 |
| agattcgatc | ctatctttgc | ttcacgggac | tataccatat | taaggataa | accctattth | 69960 |
| taaactttgt | caactagcta | tgtgaaccct | cttgggtgagc | ccaaaattag | accactttth | 70020 |
| aagaaaaaat | ttcagagaaa | tatatgctth | tgagtcaaaa | tattagatcc | atcttcattg | 70080 |
| tctatacgat | atattttctaa | ttagcaaaaa | aactttgtth | ataaaagaaa | acctaaatgg | 70140 |
| tagtcattth | attaatatct | ttccatacat | aaccgataaa | aagaaaagat | tcattcta | 70200 |
| aaacaaatta | aaaaattcac | actttthtaa | attgacatat | tattaagaaa | agatagggtg | 70260 |
| cttgaggaca | tatcaagcgt | ttaaatgctt | aatcaaaatc | taaaacgctt | ttaagacgct | 70320 |
| tcaattttta | taagaaatat | tataaaataa | tattaatgaa | atatcatgat | ttatatatat | 70380 |
| atatatatta | attaattaca | tatttaaagt | tgtaagaaaa | accaatgatt | gtattttata | 70440 |
| ttgaaagaaa | ttttgttttag | ctaaaaggat | aaaagtttgc | ttcttttttt | agtctaataa | 70500 |
| tttcttactt | tttcaactcc | aaattctagt | tgttatactg | tccaaatacca | gtattataat | 70560 |

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| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-------|
| tgacatcaaa | acttttataga | attaggcata | cgcaacattt | agttgtatat | ataaaagtat | 70620 |
| gtattagagt | agacgaagaa | aatccctaga | atgcttatta | catgcgattt | cgacaacata | 70680 |
| tactgctaaa | atgccaccaa | aatttttgtc | tattctttag | atataattgt | tacaatatga | 70740 |
| ttcatttaac | attttgttga | attgtggagc | gaaaatatct | tggattcggt | aatcgatcca | 70800 |
| atgagcgtgc | tagatgcggt | ttaaccgaag | cggttatgtc | gacgatggac | cggaaaacct | 70860 |
| cctcccat | gagagtgtcg | gtcatgacca | aatttgttat | agtgttcttg | aatagtatat | 70920 |
| tttcagaaaa | tttcaagctt | attaattatt | tgtcgttggt | tcctattaat | tattgtttat | 70980 |
| aaagctaaca | taggaaaatg | aaagttgtaa | atacattttt | attttcttag | tttttgagta | 71040 |
| aagaagaagt | tttgagacta | gatttgtaca | taatcctctg | atcaacgacc | aaatcatttt | 71100 |
| atatgatatc | ttctcaaatg | tcactcgaac | tgtgtaaaca | ttcgtttaat | cataacgaaa | 71160 |
| ccgaaccatc | ataattttca | cattaaaatg | aaccattata | aatcatttct | gtttttttta | 71220 |
| ttttctctaa | tcgtttacga | aaatttagat | ttttaaaaat | aaattgctaa | attcctaaac | 71280 |
| gcattttagt | ccaatttttg | aacagtgtga | ttggagtggg | tgataactag | taaacgaatg | 71340 |
| gaattggtag | ttgaactaaa | actcgtggaa | tggatcacct | aaaccttta | ctaatttctt | 71400 |
| attgtcttat | acataacatc | ggtaaacaaa | actgtaaaca | ctattctcct | tgtccttggt | 71460 |
| cggataagat | attcgttttt | ctgttttccg | ttaaaatata | tacaaatttt | atatcctcca | 71520 |
| ataattgatc | aagaatatat | atactttcat | ttttatttat | atattaccac | tactctttca | 71580 |
| tgtctccttc | caatttttct | ttgtcttcaa | atactattcc | aatctcaaac | gaaagagtat | 71640 |
| tttgtctctt | ttctctttct | tcttcatttt | catcatcctc | ttcaatcatc | tctgattctt | 71700 |
| ttcttctggt | cgattcattg | cgttctttac | caaattttct | tttgggtctg | ttaacaatat | 71760 |
| catcttacat | tttttataga | agtgtttcag | ttctttataa | gtagacagat | ttttattggt | 71820 |
| gcgtcggatt | cttgagcatg | gctacaagat | tcaaggggct | ttataacaag | agcttcaaat | 71880 |
| gtttctccga | catttttggt | aaatagataa | aacctcta | cttgtttagt | tttatcttta | 71940 |
| aatggacatg | aataagcttt | ctaattgatta | caaaatggat | taaatttgta | gatgtggagg | 72000 |
| aggaggagga | gatggaaatt | ggttatccga | ccgatgttcg | acacgtgtca | catatcggtt | 72060 |
| gggatagttc | atcaagtagt | gcacctagtt | gggtaagaca | tttttttgca | acaattagaa | 72120 |
| attatggtgt | gtgtttttta | attacaacgt | taatgtgctc | tgtgttggtg | atttcatcat | 72180 |
| ttgtactctg | ttttgatgtt | ttaagatatc | agatgagcaa | aaaaaataga | acgtggatcg | 72240 |
| atntaggtta | agttttaacc | tatttatgga | attttgcagc | tacatgaatt | caagacgagc | 72300 |
| aacaatgttt | tagagccaaa | ctcatcgtgg | ccatttcaag | gcaagttttt | ttctattata | 72360 |
| ttcctttttt | aaaagaagct | ttctgtcaat | aataagcaaa | tggtttccac | gtattactag | 72420 |
| tccttattga | aatttatatc | aaaaaataaa | taatttaagc | agacctccaa | atgtattact | 72480 |
| tgatagatgg | atgcataaac | taatatatgt | gtttgacaac | atagatccta | atgaaatgta | 72540 |
| attttaaaaa | tatatagatt | tgaagtcagc | gatggaggca | tttggagaag | ttgaaagcag | 72600 |

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| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|------------|-------|
| caaagaaatg | gaaagagaat | caactaaaca | aaatctgaag | aagaaactct | cttcaaaagc | 72660 |
| ttctctattg | tgtaattcat | ggtcaccaag | attctcaaga | tcaagcaagg | tcctggctta | 72720 |
| attatTTTTc | attttaattt | aatttcccat | gccattgttt | atataataat | atatagagcg | 72780 |
| tatagtaaga | tatcaatctt | aatgttttca | ttcgagatac | gtatgtcttt | tcacaagtgt | 72840 |
| gtacaaatta | atattcatac | tgtcttcgca | atgatattgg | gatggtttta | ctaatttcac | 72900 |
| aaattattgt | ttcaaaaagt | atccattaag | aaaactttca | caaatctaata | gattatgact | 72960 |
| tgtttttagat | ctatatTTTT | gttttcgaat | ttcgaagttt | ctttgaaaag | aatgaatatg | 73020 |
| gtgaaaatct | agttcagtag | ggttgtgaat | gtgaaaattt | actatacgac | attccgtttg | 73080 |
| ggacagcggg | ggaaattggg | atgatcaagg | attagtgtat | attgggtcgta | agtgaacaaa | 73140 |
| taatcacaat | ttattgagtt | agtggtttga | gtgaagaaca | tttgatgggt | atgggtttta | 73200 |
| aaatgtaatg | aacccttgat | ttctctattg | cacttttgaa | agttttttaa | cttcgcagct | 73260 |
| caatttttat | caagtactta | gtaatttata | ttatgggtgt | tgtaatcatc | gaaagtttga | 73320 |
| tcaaatgaga | tgatgcttaa | cagaaaaaaa | acaaataatc | aaaaaaagaa | gttaaaacta | 73380 |
| atntagttat | aatgggattg | aatgacctcc | ttcacaaaat | ctaaaatatg | ataaaatggg | 73440 |
| ttcattaatc | aagtataact | ggttaagtgg | ttcttactta | aggaagaatt | gcttcttatg | 73500 |
| tcgccaaaga | ggcaaagatc | aattcttctt | aaacgtgtga | tttacaaaat | cattttattt | 73560 |
| gatcaatcga | aatgggtgta | tattttttacg | ctcattaaaa | aaccatgtga | gtggactatt | 73620 |
| caatagctaa | atttactata | tacagagatt | tttcgggtgg | tagaaacccc | cgattacacc | 73680 |
| tgatttcatt | ggcttatatg | gccttggtgcc | gatatagtag | tggacatact | ctaaagtctt | 73740 |
| gaaaaatgca | ccaaaaagct | aatactttgt | taacatgggc | taaacatttt | gcctagcata | 73800 |
| tatgatccgg | cccattttatt | aatatgtatc | tacatcttta | agaagtaacg | aatttgtagt | 73860 |
| agcaaagaat | gaatggaatc | gatattgttc | agtgaccatg | aaattctcat | atattgccat | 73920 |
| aagcccatat | cttttttttta | ttattttatac | tttttacggg | cgaagaaaaa | gagaatagta | 73980 |
| gcaggattcc | tactgcaggc | aatgataata | aacttataga | aattttgaac | agcgaaaaga | 74040 |
| aaacgacttg | agattcaata | tcaatcgttg | gtgctgtcca | attggcaatg | aagtaaaatt | 74100 |
| tatgaacatt | gaattttttt | aattttaccta | ttaagcttcg | atcgtattca | acctaagaat | 74160 |
| attacatttt | ataaaattta | acagtaaaaa | tatctaattt | aagagataat | tattaaaaat | 74220 |
| tatataaaaa | agtgactgac | tttttaattct | aatttttaatt | tattaggaga | aaatctactt | 74280 |
| tgaaaattat | tatatatata | tatatatata | ttgtgaggta | gaatttttta | tttcttaaaa | 74340 |
| aggtttacta | ttttaactga | acattgtgta | aacgatgaac | atcataactc | gattgtgtcc | 74400 |
| aattcatatc | taatagttaa | atgaatcaac | gactcatata | tcacggagca | aaacgcgcat | 74460 |
| gcagaaaaat | ccaccaagcg | aacaatttgg | aaagcgatat | ttctgatgaa | tcgttgattt | 74520 |
| ccccaatatt | acgaactttc | ctgaaatctt | tcctagccgt | cgaatatgaa | ccaaatttat | 74580 |
| tacctgacct | ataaacacac | acatatgcag | gcaaatggac | acatgtgttc | tatgaatcag | 74640 |

| | | REN-00-118 seq listing ST25.txt | | |
|------------|------------|---------------------------------|------------|------------------------------|
| tgttggtgaa | gagagagctt | gtcgtgtaat | gagagttgca | tgtgttcaac aacttttgtgt 74700 |
| atgttttgta | attttcctct | tgtgatattt | tctacggtga | gaattccatt tgcaagggtta 74760 |
| catcaatggg | tgaagcctgt | acgtccaaca | tgtgaccaga | ccttctttta tatcaacggt 74820 |
| ccaaattaac | attacattaa | catacacaaa | tatattatat | atttaatact attgttcctg 74880 |
| ttcttctttt | tattgtcgtt | acctcgttag | catcaatgac | gaatgaaaat gacaaacgat 74940 |
| acattgtggt | gttcgaattc | gtgttattgt | tgccaaaacg | atgtgataat aatggaacta 75000 |
| tgttcattgt | attggcggtg | cccgtggtt | tacaacgac | tatttcacg atgaattttg 75060 |
| gtaattaacg | atataaaatt | ttcaatacta | aaagacacac | ctttttcaac atttcttttt 75120 |
| ataacttatg | atgttcccat | tccattatat | tatagctcaa | cttacaact aacttgtcac 75180 |
| atgtaaatta | ctcattgact | cgtgacaact | attgacggca | atattatcaa actcgtgggt 75240 |
| ggaaatattt | taagtccaca | aaggaggaga | aaataaaatt | cttgaatatt gaaaattcct 75300 |
| atacctctat | gatataaaag | aaaataaaat | caaagagaag | taccacaaaa acaaattttt 75360 |
| agtatttaaa | aatgccatta | ctttggaaaa | ggccccaaaa | tatcacaaaa tctaggctta 75420 |
| ggaagggtct | ctaaacgttt | attaagaatt | actaagccca | aaacttgaaa actcctaaaa 75480 |
| ctctttcttc | aaatttagac | taatcatttt | taattctctc | caaaatatta gtaacccttg 75540 |
| taaagcctaa | acattttagt | aaattttatg | atttttggtg | gtaatttttg aaaataaagc 75600 |
| ataaaatgtg | gtattccgag | gactgaccaa | atttcaaaaa | ttcaaataaa tgattaatat 75660 |
| cctaaatcaa | tcattatttt | ttataattgt | ttttgagaaa | cttatattaa tactattttc 75720 |
| aggcattttc | ttataaatta | ccctatggtt | ttagtaggca | acaaaaagat gaacgtctca 75780 |
| gatttttttg | aattcaattt | aatcttaaca | aaagcgataa | atatcaagaa gataattggg 75840 |
| tacgtgtatt | gtgtactatt | tcaaaattga | tatttgcttc | cataacgtaa cgtaacgtaa 75900 |
| gacccaaaga | ttaacacttg | gtttcttcat | ggtcgtagat | tattaaaagt ttataactaa 75960 |
| tgacgacaaa | gtttaaacga | aaaacaatat | tttctcaatt | ttcactagtt tttttttttt 76020 |
| attccagaaa | attattagta | tacaaccaac | tatttttacg | attataaact tttatttgat 76080 |
| gatattcata | atttagaaaa | accttaaacg | gatcttaatg | tcaatatcat cagctcatgc 76140 |
| accgcctctc | ggatatgttg | acaaaattac | cccatacaat | ataaaccacc aaaccataac 76200 |
| cacaaagggg | atattcgtat | attataaaaa | tatctgaata | gtcgaacttg tcgttacact 76260 |
| caaaaacgaa | atctttccct | cctctgttct | caatctttct | ataaattctc ttcttcttct 76320 |
| tcttccattt | tcccaacaac | acaaagtctc | tctctctctg | ataaaatctt aaaaccacc 76380 |
| tcgagatcat | agtcctcatc | aattagccat | aaaaaagcac | aatgctttct tcaatcaaac 76440 |
| catcttcgtc | ttccttctcc | accgctatct | ccggcagcgt | aaggcggtca attcctacaa 76500 |
| agctcaagtt | ttctccttta | ctcatcatca | aaaactgcc | taaccaaagc tttaacgcta 76560 |
| atgttgcttc | ccatcaaaag | cctctacaca | tttcatctgc | ttcgaatttc aagcgtgagg 76620 |
| tcaaagtcga | agcttacgag | gccgatcggt | cccgtccact | ggacatcaac atcgagcttc 76680 |

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| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| ccgatgaaca | atccgcgcag | aaactgaaaa | tcggaatcta | cttcgcaact | tggtgggcac | 76740 |
| ttaacgttgt | cttcaacatc | tacaacaaga | aagtcctcaa | tgcttttcct | tacccgtggc | 76800 |
| ttacttcgac | gttgtctctc | gcttgtaggt | ctttgatgat | gcttgtctct | tgggctacta | 76860 |
| gaatcgcaga | tgctcctaaa | actgatctcg | agttctggaa | aactctgttc | ccggaagta | 76920 |
| attagggttt | attgtgtgta | gttgttgcct | caaaagtttc | aatctttttt | ttttacgatt | 76980 |
| gagagctcag | tttctggaat | actctgtttt | tccggtacga | attcatgatt | tattctgttt | 77040 |
| tctggtaaaa | agtcattgatt | tactctgttt | tacggtaaga | attttagatt | ctctgttttc | 77100 |
| atgtaagtat | tttatatctt | ctctgttttc | atgtaagaat | ttagtgtact | ttcgagcatg | 77160 |
| aaactgatct | tgagatctgt | cttccggtaa | tggttttaggt | attttcatga | tggtgttgct | 77220 |
| tgatggattt | ataattttgt | ttgttgctcg | ataatgaaag | agtgtgtttt | gatcgatgtt | 77280 |
| cccgtttttt | cttattcttc | aaggctcgctg | tagcacacac | gataggacac | gttgacagca | 77340 |
| cagtgaagtat | gtcaaaagta | gcagtttcct | tcacacacat | cattaaaagt | ggtgaaccag | 77400 |
| ctttcagtgt | cttagtctca | agattcttca | tgaggagagac | tttccctctt | cctgtctatc | 77460 |
| tctctctctt | accaatcatc | ggaggctgctg | ctctcgcggc | catcaccgag | cttaacttca | 77520 |
| acatcactgg | taaaactcac | aatcctagaa | tattggtttc | acatggtgac | atttctttga | 77580 |
| tttatgggtct | tatgtgaaac | tttgtggaat | tttttttgta | gggttttatgg | gggcaatgat | 77640 |
| atcgaatttg | gcatttggtg | tccggaatat | cttttcgaag | aaagggatga | aagggaagtc | 77700 |
| agtgagcgga | atgaactact | acgcttgctt | atcgatgatg | tctcttgatg | tcctcactcc | 77760 |
| attttctatt | gccgtggaag | gtcctcaaat | gtgggctgct | ggttggcaaa | atgcggtttc | 77820 |
| tcaagtcgga | ccaaactttg | tctgggatga | tctaaaaacc | aaatcaataa | tctttaattg | 77880 |
| tttgtttaagt | tttatagact | ccaactcaaa | tgactatgag | tggattggta | tatattgctt | 77940 |
| tagttccctt | ctaacttaag | atataagatt | ctaacttaat | gtgttggtttt | tggtttttga | 78000 |
| atcaataggt | gggtagtggt | acaaagtgtg | ttttaccatt | tgtacaatca | ggtctcatac | 78060 |
| atgtcattag | accagatttc | gccgttaact | ttcagtatcg | gtaatacgat | gaagcggatt | 78120 |
| tccgttattg | ttgcatcgat | catcattttc | cataccccga | ttcaaccggt | taatgccctc | 78180 |
| ggtgctgcca | ttgcgatttt | tggaactttc | ctctactcac | aggtaaacia | acaaacttat | 78240 |
| tcttgtttac | ctacctctag | tacttggttc | tttagtgaac | aatttctagt | tctaataata | 78300 |
| ttcattgacg | ttcttcctat | gttctttgca | atcattgagc | aggcgaagca | gtgaggatgg | 78360 |
| tttaggaggc | agtttttttg | gtttgttttg | caaaagaaaa | tgaaaactaa | caaaagagta | 78420 |
| gccggggagg | agagaacatt | ccggtgagat | caacatcgga | aatgctttt | ccccggtcca | 78480 |
| tggaatgaa | gaaactggag | cttgaagttg | atagagtgtt | tgcttttact | ttttttttca | 78540 |
| ttgtctcata | atagattctg | cacaagacag | gctaattcta | tattatctat | gtttttattta | 78600 |
| gatgatcgta | ataataaaga | tatcagtgtc | atttcttgat | cagaccatct | actgaattat | 78660 |
| ttttgaggta | tctatcagtt | gatgcatgtg | taatagtttc | agaaatcact | gaattataaa | 78720 |

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| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| tatattgagg | tgtgtcgccta | ctggcctata | tacatatcat | attaggccat | taggttaaaa | 78780 |
| attctactca | atccattcct | tataattggt | ctagtttagct | atattggtct | ctcacacact | 78840 |
| ctcttattcc | aagaagaaca | ttaggaaact | ccaatattgg | gcctggtcca | tgtactcttc | 78900 |
| taagttcgtc | tatacttgga | cactgtctcc | attttgtggg | ctagggatct | acaatccaat | 78960 |
| gactgcaaaa | tatttacggc | atgcaaaact | tcttatgaca | agtgtgtttg | acacacgtct | 79020 |
| ctaaaatttc | aattatgtgg | atgtgcttat | ttgtatcaat | gcatttcatg | cttgcttggc | 79080 |
| ttcgtatgga | aaaagtatga | gccatcataa | aaatttggtta | aaaaagattc | gagtcattta | 79140 |
| cattgtttta | ggagcctttt | ttgatcgggt | aggggtgctag | agaaccatt | acatactagt | 79200 |
| catctggggg | tattagtatt | ttgtaagctg | ttttaaacga | ttccgaattt | tgtttctata | 79260 |
| ttttgtggtc | agatctgatg | gcctgaaaat | catccccaat | aatcaaactt | taatgcgcgt | 79320 |
| ttaatatttt | actaaattat | gatcatatta | ttttttgcga | tctagtcagt | agtcactgta | 79380 |
| gtgaagttgg | tgagacgaca | cccacccaaa | aggagtacgt | aaagcaattc | cggcttccaa | 79440 |
| ttatttttatg | ctaactttgt | cggcagatga | gatggataca | tttatacata | tcatatataa | 79500 |
| taggttggga | aattgttagt | ttcgttgata | aaataattaa | ggttttgact | tttgactgat | 79560 |
| tctggatttg | atttcaggaa | atgtaaaatt | ttccagattc | tgtatgtact | ttttgataag | 79620 |
| aaatttcaag | ttgctgcatg | tcaaaaattt | caactaatct | cttttgtagt | gtataaaattt | 79680 |
| atttactgtc | caatagacaa | ttgccaccga | tcctaaggag | caacgtacaa | taccaaaaagt | 79740 |
| ttgcatgcat | aataaaaagt | catttaaaca | taacgtataa | taattttcag | agtgattatt | 79800 |
| gtaactttca | aattttcaca | taaatttttag | agtattaaat | caaatagcct | ttgtaatttt | 79860 |
| tgagtaaact | aaatgacggg | ctttttttac | tcaaaatcaa | ttacaaccct | ttaaaatatc | 79920 |
| ctaaaagctt | tgtttttaaaa | aagaagataa | attatcacaa | caagaatata | atctaactca | 79980 |
| ctacaaaatg | taaggccaaa | gaagagatac | gttactgat | tggacgtgat | ggagagagct | 80040 |
| cacatctcgt | ctggccttat | catcatcgta | atctattgaa | gatatatata | tggttaagaca | 80100 |
| aattaacttt | actcacggat | tctattcttt | ttaccatttc | tcggttttgt | aacgaacgac | 80160 |
| gaaccaccaa | ctagacaacg | aaacgtccca | cttgtttcca | ttagttaaat | ttgggtaaca | 80220 |
| ccaaaatcgc | attaacttaa | taaaacactg | ttccaatatc | aaccactgcc | atattttctc | 80280 |
| ccttattttt | ttttgacatc | aaaactgatt | ttggagaggc | tttgaaaccc | cgactataaa | 80340 |
| tttgatttag | gtgttattct | gatttatgag | tgaatagtta | cacagtcgga | gtttgaactg | 80400 |
| aaagttatag | gattacattt | ttggtaaaaa | attgttgagt | cgtatttttg | gtagaaaaca | 80460 |
| gtaaaattat | gttttttgac | agaaaattgg | aggatagtaa | ttttggagga | aatcatatat | 80520 |
| atgaaaattg | gccaactctc | tccatatgat | tgacacataa | tcacttttagc | atttgacatg | 80580 |
| tgtctattaa | ataattaatg | taagctcttc | aacttctaata | ttatagggtta | aagatatatt | 80640 |
| tattatttaa | ttttacatct | tattttattt | tacgtattta | attatactat | tactatattt | 80700 |
| attttaatat | tacatgattt | ttcaataaaa | ccatttttaat | agttttctta | tactctgaag | 80760 |

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| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-------|
| tttttttttt | ttttttgtaa | tccaaactca | aagtatgagt | gtataatagt | cgtggattac | 80820 |
| ttaataat | gagtaagtta | ttctcttaaa | tgaatat | tattttctta | aattgatatt | 80880 |
| tatataataa | atcactaagg | gtgaaaaatg | cgtaaggagt | tccatcatca | aattcttagg | 80940 |
| tttctagaat | ccaacactaa | cctctgttaa | attggtttaa | aacaaacg | gtttatgaat | 81000 |
| tatgtatatg | atgcattg | gagaacg | ctagaaaaaa | atatttttaa | tactaaaagt | 81060 |
| aattgtttat | tgcatgattg | aatgattaga | taaatataaa | ttatat | attaaacact | 81120 |
| acaaaagaat | ccgaaaaaac | cgcgacgtag | cgcgataat | tacctagtag | tgttaaaaca | 81180 |
| aaattggagg | aaatttttga | gatcacattt | ttaacataaa | attagtagaa | atatatattt | 81240 |
| taattattaa | ataaaaaatt | aaagtaagcg | ctaaatgtca | ttaagaaaat | tttgtgaaag | 81300 |
| gcggaaacaa | aaatttttaa | agaaaaagaa | aggactaatc | acatcatcgc | cattcaatga | 81360 |
| tatagtttga | caatgatatg | attcattaac | taccattcaa | taaatcggtt | tatgaaatct | 81420 |
| aacggttaaa | tattagttgg | taaagcatga | ttaattaaga | taatcactca | acaatcaatt | 81480 |
| caggaccaac | gtcacctagc | taccaccacg | aaggaaaatg | ctaatacaag | aaccaa | 81540 |
| tcttattaac | cagttatctt | tttctcatgg | accacattta | aatcgtcacg | gcaattaagc | 81600 |
| tagattttta | gaaagaataa | atgggatact | caactaattg | ccacaaattt | tattactttt | 81660 |
| aaaactcggc | tgctcggccc | aaacttatcc | ggtacggatg | gatagaccta | tcttttatcg | 81720 |
| tgtaaagaaa | ctcttgggct | ccactcttga | cgttgctcat | tttatctact | tttgttggtt | 81780 |
| tcttagtgac | ctttgacg | tattttacata | gagttgacag | atttgaattg | acgttttctc | 81840 |
| aataatgcag | acaaaaattt | tcacgtttct | tacatgtaca | tatatatagt | aaaacaaatc | 81900 |
| tctgaagaca | cacaagagaa | tcaagaacaa | tgaaaaattt | aaccagtttc | gtaattgtta | 81960 |
| tcttactaca | aagcttattg | tttcatgtat | atggtcgtca | tcaaagttct | tcgaagaaca | 82020 |
| ttttagtaga | ttcatctcca | tttccttctg | atttcctctt | tggtacagct | tcttccgctt | 82080 |
| accaggtact | tattttgcgt | cccactgata | atttaatatc | agatttattt | agtgtatcgt | 82140 |
| cattacgaaa | tgtttatttt | atatataaaa | aaattgtgaa | tagtatgaag | gtgcgttctt | 82200 |
| gactgatgga | aaaagtttga | acaattggga | tgtctttacg | cataaaaatc | ctggtatgta | 82260 |
| ttttattttg | gtttccattt | ggtttatttt | ctatttgaaa | tagtttaaga | ttagtttaag | 82320 |
| atttttattt | ttttttaatt | cacttattct | attgacaagt | atatatattg | gaactgcagg | 82380 |
| gaaaatactt | gacaagaaca | atgcagatag | agctgtggac | caatataatc | gatttttgg | 82440 |
| tattttctta | tgataattat | ttctttctat | ttttgttctt | gtcaacttct | tttatcatat | 82500 |
| tatattctca | tattatttga | tgttgttatt | tattttatat | tatcttctat | gcttaggagg | 82560 |
| acatccaatt | aatgtctttt | cttggagtga | acagttatag | gttttcaatt | tcttggtgta | 82620 |
| gaatcttacc | tagtaagtcc | ttcttttagt | aaatcagcag | tattattaat | actacattgc | 82680 |
| attgcatggt | aaaaaaaaaga | aaatattcga | ttgcatctca | tatactaacc | agagttgata | 82740 |
| aattaaaata | ctgaaactca | atcgacgaat | agttatttag | atttagctta | ttatttgtga | 82800 |

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| gacaggagga | agatttggag | agattaatta | tttggggata | aagtattaca | acatatattat | 82860 |
| cgatgctctc | attagtagag | gtactttttt | gtctttccgg | tttataataa | tttaagtttt | 82920 |
| tttttaaaat | attgtaatct | cataaagtta | atgaaaatac | ataattgtat | caactaatca | 82980 |
| ctatccaggg | attaaaccat | ttgtgacgtt | gaaccatgtc | gactatcctc | aagaactcga | 83040 |
| ggaccggttt | caaagttggt | taaaccccga | gatgcagtga | gtgggttaa | agaattagta | 83100 |
| tttttatgaa | cccctaatta | cttagaatgg | caatgaactt | ataaacactt | tttttttttt | 83160 |
| ttgttatttt | tgataggaag | gaatttggtt | atthagccga | tatatgtttc | aagcattttg | 83220 |
| gaaaccgagt | taaatactgg | accacgctta | acgaaccaa | tcaacaatta | atcttaggct | 83280 |
| atctaacagg | taaatttcca | ccctctcggt | gtcctcgc | atacgggaac | tgtagccagg | 83340 |
| ggaattcaga | aaccgaacct | ttcatagccg | cacataacat | gatccttgca | cacgcaaaag | 83400 |
| cggttaacat | atacaagacc | aaatatcagg | taataaaaact | catacatcaa | attaagacct | 83460 |
| ggtttcgtga | gttatcgata | taaatataat | gtttttgcag | aaagaacaaa | agggaagcat | 83520 |
| tggcattgtg | gtacaaacat | catggtttga | accattagtg | gattccaatg | cggataaaga | 83580 |
| agctgctgag | agagctcaat | cattttactc | taattggtat | gttatattac | tatatatgtt | 83640 |
| gagatcatat | ttgtagatat | gaagtatagt | acttcacca | catatggaat | atatattgtt | 83700 |
| ttatctattt | gtattctaac | atgtactagg | attctagatc | ccgttatata | tgggaaatat | 83760 |
| ccaaaagaaa | tggtagatat | tcttggaaca | gccttgccac | aattttcgag | caatgaagtg | 83820 |
| aagaacttag | agaagtcgag | ggcagatttc | gttggtatta | atcactatac | aagttacttc | 83880 |
| attcaagatt | gtttgacctc | tgcttgtaat | actggacatg | gagcttttaa | ggccgaagga | 83940 |
| tatgctctca | agttagaccg | gaaaggcaat | gttactatag | gagaacttgt | aagtacattc | 84000 |
| attcagtttc | ttatattcaa | tattttacga | ctatattcaa | atgttttagt | aaattttatt | 84060 |
| gtttattgac | catgtttcta | ttgttagacc | gatgtaaatt | ggcagcatat | tgatcccaca | 84120 |
| ggattccaca | agatgctgaa | ttatttaaaa | gataggtacc | caaacatgcc | aatgttcata | 84180 |
| actgaaaacg | gtacaagacc | tcaaatttga | tcaatgatcg | agtcatcaac | catatttgaa | 84240 |
| attatcatga | aaaattatta | ttaatggctt | gaagggtttg | gagacttgca | aaaacctgaa | 84300 |
| acaacggata | aagaacttct | aaatgataca | aaaaggatcc | aatacatgag | tggatactta | 84360 |
| gaagctttac | aagcagcaat | gaggtaaata | atztatgtaa | atztatgcag | aaatccaatt | 84420 |
| cttaaaatca | tgcatcca | tagtctttaa | accaattttt | atctaataa | aatttactaa | 84480 |
| ttctatataa | gttgtgaatt | gttttggtag | ggatggagca | aatgtgaagg | gttattttgt | 84540 |
| gtggtcacta | ttagacaatt | ttgagtgggt | gttcggatac | aagggttcggt | ttggtctatt | 84600 |
| ccatgtggat | ctaacaactc | ttaaaggtc | accgaaacaa | tcagcttcat | ggtacaaaaa | 84660 |
| ttatatcgaa | gaacacgtga | atcgaagaga | tatcgtagat | aattattaaa | cacatttatt | 84720 |
| tttaattcgt | attcactgcc | aaagaaagtc | aaaaattaca | aaagcattta | aaattgatac | 84780 |
| ttatcattgt | tgttgattgt | tgaatgatta | aatttgtctt | ttcctcctaa | aagtgaatgt | 84840 |

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| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| ttaatgtggtt | acatgattat | ttgtctaata | ttgcacaata | attctatttag | cttaagatgt | 84900 |
| tgaagaacac | gtgagaagag | aatttaggtt | ttttttttgg | tcaaaggaag | aatagtaatt | 84960 |
| cgtattccta | agtaaagaaa | gtcaaactag | gaaagaattt | atgtaacttc | gttaaataaa | 85020 |
| tgattaatgg | ttttctttac | cttaaagtga | atgtttaatc | agtgttacgc | gccatacggg | 85080 |
| agtaattgtc | taatcttgca | caatcattca | acacgttttc | aaagaaaact | ttttttgttc | 85140 |
| tctatgatga | taatagtgtt | aaatcaaaaag | tagtacaaaa | gtaaactaaa | cttatttttag | 85200 |
| attaaaaatc | accgaaaaaa | ctaaacacgc | gtagaaaagc | atttgacatc | acctccaaat | 85260 |
| ttaatttcac | gcaagcaagc | gtttctaaga | tatggattct | aaacgctata | tactgttttt | 85320 |
| ttgtaagata | aattcttctt | aatttttttca | ataaaaaaat | ttaaaattaa | aaataaaaatc | 85380 |
| ataaactaac | tgataatgac | caaaggaacc | ataaacacct | agaaaattat | atttctgtgt | 85440 |
| tttctatctg | cggtttaacg | tcagtaacat | ctaggaaagt | tatttttacga | aagtgaactt | 85500 |
| ggtttttggt | tgattgaaat | atgtttcaga | ctttcagaag | aaaaaaaaag | atacttattt | 85560 |
| aaaatatgtt | aagatttttag | ttcacttcaa | attatgtaaa | catgctgatt | tttttttttt | 85620 |
| tttttttttt | tttttttgca | atcatccttc | aatattgtct | gcgaaacagt | caagtttcaa | 85680 |
| gtacgattca | caacattttt | caaaaaattt | attcattcat | ttcactccca | aaacttttta | 85740 |
| atttacaata | ctaccggtac | acgtatatgt | gttgaataga | aatttttttga | atattttatta | 85800 |
| tattttgagt | tacatataga | ctatgattta | atcaaataca | caatgagtcg | ttaaacaatc | 85860 |
| taaagaaaaa | gacacacgaa | caaactgata | acatagataa | catataagca | aaataggtcg | 85920 |
| gaatcaacaa | ttacatatat | aaatgggtgc | gtgggttaatg | atttcatttg | gtattttcac | 85980 |
| gacaagatcg | tttctaggta | catagaagtc | aacttcgttg | ccatataaac | tgtataacac | 86040 |
| ttagtcatac | aatctgggtt | atttatcaag | ttcaaaaatt | taatttaatc | aaaatatttg | 86100 |
| tttgcgaaat | tttcaatcga | gaattaaaaa | attaaaaaaa | gttgcgtggt | tgagttaatc | 86160 |
| gtttggtctc | catcgctgat | atcttcaatt | tctctgaatt | aatcttcaca | tagctgtata | 86220 |
| aagacctaga | aaagaaaaca | gatatactag | taaccaaact | tagaatcaag | aaagaaaaaa | 86280 |
| acagctatag | agttgaataa | gaagaagaag | aagatgacat | tttttaaacc | aattagaatc | 86340 |
| atcaattttt | tattcctatt | tttcatattt | cttgtggtat | acgcaaccgt | gttctgcaaa | 86400 |
| ttttgttcag | acactggaaa | cttcaaaaaga | agtaagttga | ggtacgaaac | ttccgatgat | 86460 |
| agttatgaag | ctaggagtag | ccatgtcacc | aaccatatcc | tcagccgccg | caacaccaac | 86520 |
| cccttcacca | aatgggtcaa | cgttctccgc | cgcactagca | cttcttgtac | gaaaccgtaa | 86580 |
| gtttcttctt | tttacttgaa | tttatataaa | cgtatgaatt | agtcgtgtgt | ttgccaaaaa | 86640 |
| agaaaagaaa | aagaattagc | cgtgtcatag | aattgtaaat | tatggcgacg | gatgatataa | 86700 |
| tatttaacac | gtgagtagta | ttgaagacat | ttattaaaga | atatgtttgt | tgttaaaaag | 86760 |
| taagatatca | gtaattaatt | aatgtttcac | actgtcaata | acataaaata | tgtgattttg | 86820 |
| aattcgaagc | atagtaacaa | caatatataa | aactattacg | ccataaacta | tagccatagt | 86880 |

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| | |
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| atTTTTatTTt atacttattt atactttcta acttccaaat ttttatattt tatataataa | 86940 |
| tcatcaacgc tatatatcta gaaagtaaaa ccagtaaaat ctaacgtacg aaattagatg | 87000 |
| gagttgtag gcacatttca tatattaaaa ttttaatgat tttcttttaa actttatgat | 87060 |
| atttaaagca tgtacatatt ctttttttgg ttataatata tgtaaaaatt tggtagctt | 87120 |
| tgtctatagt tgtaaccaa ttgatgcata gtttatgata tttaatagtt tcgaatatat | 87180 |
| tcagtaggta gaaattgggg aattttttaa aagttgacaa gactgcccc aatcgcaat | 87240 |
| gatgcattta aaatattctg caattttttc atataaatat agacacgtat agataagagt | 87300 |
| gcacacaaaa ccacagacga catacacgag aaagaaaaaa aaccaaattg aaaacttttg | 87360 |
| ccaactttgc aattctgttt ttattacaaa gctt | 87394 |

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<220>
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<220>
 <223> primer

<400> 8
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<210> 9
 <211> 20
 <212> DNA
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<220>
 <223> primer

<400> 9
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<210> 10
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<210> 11

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 <220>
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 <220>
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 <400> 12
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 <220>
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 <400> 13
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 <220>
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 <400> 15
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 <210> 16
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 <212> DNA
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 <220>
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 <400> 16

acttcacttg agcggaagcc atag REN-00-118 seq listing ST25.txt 24

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<212> DNA
<213> Artificial

<220>
<223> Primer

<400> 17
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